=> d his ful

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(FILE 'HOME' ENTERED AT 08:54:18 ON 20 AUG 2005)
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FILE 'REGISTRY' ENTERED AT 08:54:23 ON 20 AUG 2005
L2
                STR
L3
        120699 SEA SSS FUL L2
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               STR
         51757 SEA SUB=L3 SSS FUL L4
L5
L9
               STR
               STR L9
L10
L11
               STR
               STR L9
L12
L13
               STR L12
L17
               STR L15
L20
          1437 SEA SSS FUL L9 OR L10 OR L11 OR L12 OR L13
L21
               STR L17
L22
           210 SEA SSS FUL L17
L23
               STR L15
L24
             9 SEA SUB=L22 SSS FUL L23
     FILE 'HCAPLUS' ENTERED AT 09:22:38 ON 20 AUG 2005
L25
           484 SEA ABB=ON PLU=ON L24
L26
          15691 SEA ABB=ON PLU=ON L5
L27
          8894 SEA ABB=ON PLU=ON L20
L28
             2 SEA ABB=ON PLU=ON L25 AND L26 AND L27
               D STAT QUE
               D IBIB ABS HITSTR L28 1-2
L32
            89 SEA ABB=ON PLU=ON L26 AND L27
L36
            27 SEA ABB=ON PLU=ON L24/P
            14 SEA ABB=ON PLU=ON L25 AND L26
L37
            12 SEA ABB=ON PLU=ON L25 AND L27
L38
            70 SEA ABB=ON PLU=ON L32 AND PD=<OCTOBER 9, 2002
L39
L40
            39 SEA ABB=ON PLU=ON L36 OR L37 OR L38
            14 SEA ABB=ON PLU=ON L40 AND PD=<OCTOBER 9, 2002
L41
               D IBIB ABS HITSTR L41 1-14
L42
            70 SEA ABB=ON PLU=ON L39 NOT (L41 OR L28)
          3967 SEA ABB=ON PLU=ON L26(L)REACTANT/RL
L45
L46
          6032 SEA ABB=ON PLU=ON L27(L)REACTANT/RL
            32 SEA ABB=ON PLU=ON (L45 AND L46) AND L42
L47
               D STAT QUE
               D IBIB ABS HITSTR L47 1-32
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FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 AUG 2005 HIGHEST RN 861198-35-8 DICTIONARY FILE UPDATES: 19 AUG 2005 HIGHEST RN 861198-35-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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Sackey 10_682530-History

* The CA roles and document type information have been removed from * the IDE default display format and the ED field has been added, * effective March 20, 2005. A new display format, IDERL, is now * available and contains the CA role and document type information. *

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

FILE HCAPLUS

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FILE COVERS 1907 - 20 Aug 2005 VOL 143 ISS 9 FILE LAST UPDATED: 19 Aug 2005 (20050819/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

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=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 09:22:38 ON 20 AUG 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 20 Aug 2005 VOL 143 ISS 9 FILE LAST UPDATED: 19 Aug 2005 (20050819/ED)

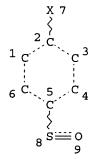
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> =>

=> d stat que L2

STR



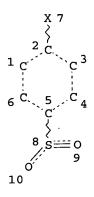
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GRAPH ATTRIBUTES: RSPEC I NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

L3 120699 SEA FILE=REGISTRY SSS FUL L2

L4 STR



NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

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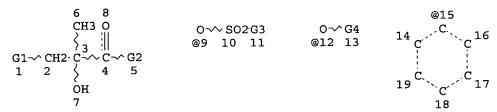
RSPEC I

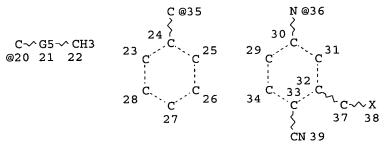
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L5 51757 SEA FILE=REGISTRY SUB=L3 SSS FUL L4

L9 STF





VAR G1=X/9

VAR G2=OH/12

VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15

VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36

REP G5 = (3-4) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

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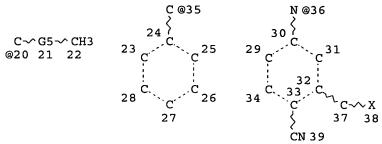
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L10 STR





VAR G2=OH/12

VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36

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REP G6=(0-3) A

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

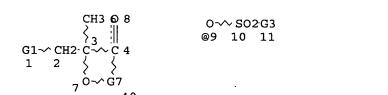
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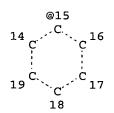
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RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE L11 STR





VAR G1=X/9

VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15

REP G7 = (2-7) A

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

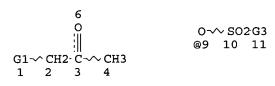
L12 STR

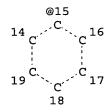
@15
14 C C 16
19 C 17
18

VAR G1=X/9
VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE L13 STR





VAR G1=X/9
VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE L17 STR

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L20 1437 SEA FILE=REGISTRY SSS FUL L9 OR L10 OR L11 OR L12 OR L13

L22 210 SEA FILE=REGISTRY SSS FUL L17

L23 STR

NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

L24 9 SEA FILE=REGISTRY SUB=L22 SSS FUL L23 L25 484 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 L26 15691 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 L27 8894 SEA FILE=HCAPLUS ABB=ON PLU=ON L20

L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L26 AND L27

=>

=>

=> d ibib abs hitstr 128 1-2

L28 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:293441 HCAPLUS

DOCUMENT NUMBER:

140:303414

TITLE:

Process for making bicalutamide and intermediates

thereof

INVENTOR (S):

Thijs, Lambertus; Keltjens, Rolf; Ettema, Gerrit J. B.

PATENT ASSIGNEE(S):

Neth.

SOURCE:

U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of U.S.

Ser. No. 261,492.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004068135	A1	20040408	US 2003-682530	20031010
US 2003073742	A1	20030417	US 2002-261492	20021002
US 6818766	B2	20041116		
PRIORITY APPLN. INFO.:			US 2002-261492	A2 20021002
OTHER SOURCE(S):	MARPAT	140:303414		
GI				

Bicalutamide (I) and/or its intermediates are made by reaction of AB p-fluorobenzenesulfinic acid salt (II; Z = a cation) with 2-hydroxyisobutyric acid derivs. of formula YCH2C(Me)(OX)COA (A = OR; wherein R = H, C1-6 alkyl, C3-6 cycloalkyl, Ph, benzyl,4-cyano-3trifluoromethylanilino; Y = leaving group and X = H; or X and Y are joined together to form a 3- to 6-membered heterocyclic ring, in particular oxirane ring; or X and A are joined together to form a 5- to 10-membered fused or unfused heterocyclic ring with the proviso that if a ring nitrogen is present, it may be substituted by a 3-trifluoromethyl-4cyanophenyl group), YCH2CMe:CH2 (Y = same as above), or YCH2COMe (Y = same as above). Thus, 0.500 g N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2oxiranecarboxamide (III) was dissolved in dissolved in a mixture of 40 mL CHCl3 and 40 mL H2O, successively treated with 371 mg sodium p-fluorobenzenesulfinate and 298 mg tetrabutylammonium bromide, and refluxed for 96 h to give, after workup and silica gel chromatog., 380 mg I (48% yield). Similarly, chiral (R)-I was obtained using chiral epoxide (S)-III in 43% yield.

IT 676559-19-6, Ammonium p-fluorobenzenesulfinate RL: RCT (Reactant); RACT (Reactant or reagent)

(claimed compound; preparation of bicalutamide by coupling of N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2-orixanecarboxamide or -3-(halo or mesyloxy)-2-hydroxy-2-methylpropanamide with sodium p-fluorobenzenesulfinate)

RN 676559-19-6 HCAPLUS

CN Benzenesulfinic acid, 4-fluoro-, ammonium salt (9CI) (CA INDEX NAME)

NH3

IT 824-80-6, Sodium p-fluorobenzenesulfinate
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of bicalutamide by coupling of N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl-2-orixanecarboxamide or -3-(halo or mesyloxy)-2-hydroxy-2-methylpropanamide with sodium p-fluorobenzenesulfinate)

RN 824-80-6 HCAPLUS

CN Benzenesulfinic acid, 4-fluoro-, sodium salt (9CI) (CA INDEX NAME)

Na

Absolute stereochemistry.

RN 512776-90-8 HCAPLUS
CN 1,3-Dioxolane-4-carboxylic acid, 2,2,4-trimethyl-, sodium salt (9CI) (CF INDEX NAME)

Na

RN 113299-40-4 HCAPLUS
CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L28 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:300625 HCAPLUS

DOCUMENT NUMBER: 138:321017

TITLE: Process for making bicalutamide using a

p-fluorobenzenesulfinic acid salt.

INVENTOR(S): Thijs, Lambertus; Keltjens, Rolf; Ettema, Gerrit Jan

Bouke

PATENT ASSIGNEE(S): Synthon B.V., Neth.

SOURCE: U.S. Pat. Appl. Publ., 24 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PATENT NO.				KIND DATE				APPLICATION NO.						DATE					
	US 2	003	 0737	42		A1	_	20030417 US 2002-261492						2	 0021	002				
	US 6								20041116											
	WO 2004031136						A1 20040415				WO 2003-EP11166						20031001			
	,	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,		
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,		
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚP,	KR,	KΖ,	LC,	LK,	LR,		
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,		
			PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ТJ,	TM,	TN,		
			TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
		RW:						MZ,								AM,	AZ,	BY,		
								TM,												
								ΙE,												
			BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
	EP 1	546						2005									-			
		R:	AT,	BE,	CH,	DE,		ES,												
								RO,										•		
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AB																hvl)ı	ohen	yl]-2-		
																		sulfinate,		
	and																			
IT	9035							_				J			u			•		
	RL:			•							Svntl	heti	n nre	enar:	atio	n) - 1	DRED			
			, 111				arac		, , ,	' '	J 11 C		C PI	-par	~CTO	,,				

(Preparation)

90357-06-5 HCAPLUS

salt)

RN

CN

(process for making bicalutamide using a p-fluorobenzenesulfinic acid

Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-

fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

RN 113299-40-4 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

IT 369-51-7D, p-Fluorobenzenesulfinic acid, salts 824-80-6,

Sodium p-fluorobenzenesulfinate

RL: RCT (Reactant); RACT (Reactant or reagent)

(process for making bicalutamide using a p-fluorobenzenesulfinic acid salt)

RN 369-51-7 HCAPLUS

CN Benzenesulfinic acid, 4-fluoro- (9CI) (CA INDEX NAME)

RN 824-80-6 HCAPLUS

CN Benzenesulfinic acid, 4-fluoro-, sodium salt (9CI) (CA INDEX NAME)

Na

IT 58653-97-7P 512776-89-5P 512776-90-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(process for making bicalutamide using a p-fluorobenzenesulfinic acid salt)

RN 58653-97-7 HCAPLUS

CN Oxiranecarboxylic acid, 2-methyl-, methyl ester (9CI) (CA INDEX NAME)

RN 512776-89-5 HCAPLUS

CN 1,3-Dioxolane-4-carboxylic acid, 2,2,4-trimethyl-, (1R,2S,5R)-5-methyl-2- (1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 512776-90-8 HCAPLUS

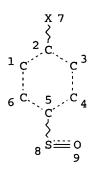
CN 1,3-Dioxolane-4-carboxylic acid, 2,2,4-trimethyl-, sodium salt (9CI) (CA INDEX NAME)

Na

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> => d stat que L2 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

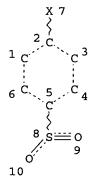
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NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L3 120699 SEA FILE=REGISTRY SSS FUL L2

L4 STR



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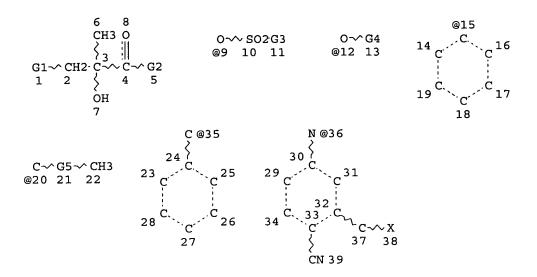
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L9 STR

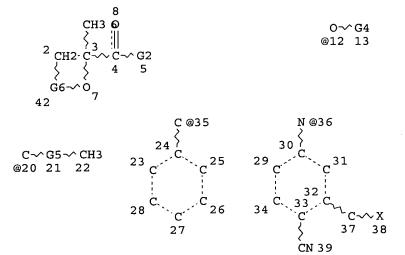


VAR G1=X/9
VAR G2=OH/12
VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36
REP G5=(3-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE L10 STR



VAR G2=OH/12 VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36 REP G5=(3-4) C REP G6=(0-3) A

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

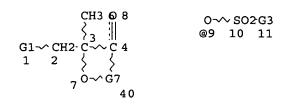
RING(S) ARE ISOLATED OR EMBEDDED

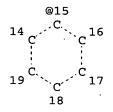
NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L11

STR





VAR G1=X/9

VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15

REP G7 = (2-7) A

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

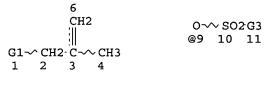
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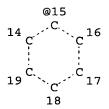
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L12 S





VAR G1=X/9

VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

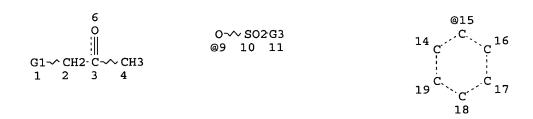
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L13

STR

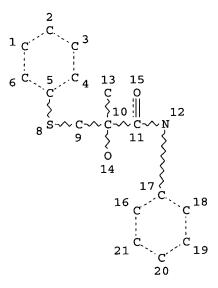


VAR G1=X/9
VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE L17 STR



NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L20 1437 SEA FILE=REGISTRY SSS FUL L9 OR L10 OR L11 OR L12 OR L13

L22 210 SEA FILE=REGISTRY SSS FUL L17

L23 STR

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 24

NORDER OF NODES 15 24

STEREO ATTRIBUTES: NONE

L24	9	SEA	FILE=REGISTRY	Y SUB=L22	2 SSS FUI	ь ь23
L25	484	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L24
L26	15691	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L5
L27	8894	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L20
L36	27	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L24/P
L37	14	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L25 AND L26
L38	12	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L25 AND L27
L40	39	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L36 OR L37 OR L38

=>

=> d his 141

(FILE 'HCAPLUS' ENTERED AT 09:26:06 ON 20 AUG 2005)
L41 14 S L40 AND PD=<OCTOBER 9, 2002

=> d ibib abs hitstr 141 1-14

L41 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 20

2002:895868 HCAPLUS

DOCUMENT NUMBER:

139:143316

TITLE:

ADME evaluation 2. A computer model for the prediction

of intestinal absorption in humans

AUTHOR (S):

Klopman, Gilles; Stefan, Liliana R.; Saiakhov, Roustem

D.

CORPORATE SOURCE:

Department of Chemistry, Case Western Reserve

University, Cleveland, OH, 44106, USA

SOURCE:

European Journal of Pharmaceutical Sciences (

2002), 17(4-5), 253-263

CODEN: EPSCED; ISSN: 0928-0987

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Purpose: To develop a computational method to rapidly evaluate human intestinal absorption, one of the drug properties included in the term ADME (Absorption, Distribution, Metabolism, Excretion). Poor ADME properties are the most important reason for drug failure in clin. development. Methods: The model developed is based on a modified contribution group method in which the basic parameters are structural descriptors identified by the case program, together with the number of hydrogen bond donors. Results: The human intestinal absorption model is a quant. structure-activity relationship (QSAR) that includes 37 structural descriptors derived from the chemical structures of a data set containing 417 drugs. The model was able to predict the percentage of drug absorbed from the gastrointestinal tract with an r2 of 0.79 and a standard deviation of 12.32% of the compds. from the training set. The standard deviation for an external test set (50 drugs) was 12.34%. Conclusions: The availability of reliable and fast models like the one we propose here to predict ADME/Tox properties could help speed up the process of finding compds. with improved properties, ultimately making the entire drug discovery process shorter and more cost efficient.

IT 94-20-2, Chlorpropamide 90357-06-5, Bicalutamide
RL: PKT (Pharmacokinetics); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(computer model for prediction of intestinal absorption in humans)

RN 94-20-2 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[(propylamino)carbonyl]- (9CI) (CA INDEX NAME)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:509907 HCAPLUS

DOCUMENT NUMBER: 137:384623

TITLE: Syntheses of enantiomerically pure (R) - and

(S)-bicalutamide

AUTHOR(S): James, Kenneth D.; Ekwuribe, Nnochiri N.

CORPORATE SOURCE: Department of Innovation, Nobex Corporation, Durham,

NC, 27713, USA

SOURCE: Tetrahedron (2002), 58(29), 5905-5908

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:384623

GΙ

AB The racemic antiandrogen bicalutamide is the leading antiandrogen used for the treatment of prostate cancer. The (R)-isomer possesses virtually all of the activity, but both isomers are metabolized by the liver. A convenient synthetic route to the active enantiomer would be an attractive option for patients who are hepatically impaired. We now demonstrate a rather short synthesis of (R)-bicalutamide (I), starting with naturally occurring (S)-citramalic acid (II). The authors have also used this procedure to synthesized the less active (S)-bicalutamide from the

unnatural (R)-citramalic acid.

IT 335595-50-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(syntheses of enantiomerically pure (R) - and (S) -bicalutamide)

RN 335595-50-1 HCAPLUS

CN 1,3-Dioxolan-4-one, 5-(bromomethyl)-5-methyl-2-(tribromomethyl)-, (5R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 113299-38-0P 113299-40-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (syntheses of enantiomerically pure (R) - and (S)-bicalutamide)

RN 113299-38-0 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 113299-40-4 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:449662 HCAPLUS

DOCUMENT NUMBER:

137:33310

Preparation of anilinopyrimidines as IKK inhibitors TITLE: INVENTOR (S): Kois, Adam; MacFarlane, Karen J.; Satoh, Yoshitaka;

Bhagwat, Shripad S.; Parnes, Jason S.; Palanki,

Moorthy S. S.; Erdman, Paul E.

PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 194 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	ENT NO.		APPLICATION NO.	DATE
WO 2	2002046171 2002046171	A2 20020613	WO 2001-US46403	20011205 <
	W: AE, AG, AL, CO, CR, CU, GM, HR, HU, LS, LT, LU, PL, PT, RO, UG, UZ, VN,	AM, AT, AU, AZ, CZ, DE, DK, DM, ID, IL, IN, IS, LV, MA, MD, MG, RU, SD, SE, SG, YU, ZA, ZW, AM,	BA, BB, BG, BR, BY, DZ, EC, EE, ES, FI, G JP, KE, KG, KP, KR, D MK, MN, MW, MX, MZ, D SI, SK, SL, TJ, TM, C AZ, BY, KG, KZ, MD, D SL, SZ, TZ, UG, ZM, D	GB, GD, GE, GH, KZ, LC, LK, LR, NO, NZ, OM, PH, TR, TT, TZ, UA, RU, TJ, TM
	CY, DE, DK,	ES, FI, FR, GB,	GR, IE, IT, LU, MC, I GN, GQ, GW, ML, MR, I	NL, PT, SE, TR,
US 2			US 2001-4642	
			CA 2001-2431160	
AU 2	2002020195	A5 20020618	AU 2002-20195	20011205 <
EP 1	1349841	A2 20031008	EP 2001-999564	20011205
		DE, DK, ES, FR, LV, FI, RO, MK,	GB, GR, IT, LI, LU, I CY, AL, TR	NL, SE, MC, PT,
JP 2			JP 2002-547910	20011205
PRIORITY	APPLN. INFO.:		US 2000-251816P WO 2001-US46403	
OTHER SOU	JRCE(S):	MARPAT 137:33310)	

GI

RN

AB The title compds. [I; R1 = (un)substituted (hetero)aryl; R2 = H; R3 = H, alkyl; R4 = halo, OH, alkyl, alkoxy; R5, R6 = R8, (CH2)aCOR9, (CH2)aCO2R9, etc.; or NR5R6 = (un)substituted heterocycle; R8, R9 = H, alkyl, aryl, etc.; a = 0-4] having activity as inhibitors of IKK, particularly IKK-2, were prepared E.g., a multi-step synthesis of I [R1 = 4-ClC6H4; R2-R6 = H] having an IC50 of \leq 1 μ M in the IKK-2 enzyme assay, was given. Such compds. I have utility in the treatment of a wide range of conditions that are responsive to IKK inhibition. Thus, methods of treating such conditions are also disclosed, as are pharmaceutical compns. containing one or more compds. of the above compds.

IT 90357-06-5, Bicalutamide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anticancer agent; preparation of anilinopyrimidines as IKK inhibitors) 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

IT 434948-10-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of anilinopyrimidines as IKK inhibitors)

RN 434948-10-4 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[[4-[4-[(4-chlorophenyl)sulfonyl]amino]phenyl]2-pyrimidinyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L41 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:449661 HCAPLUS

DOCUMENT NUMBER: 137:33309

TITLE: Preparation of anilinopyrimidines as JNK pathway

inhibitors

INVENTOR(S): Kois, Adam; MacFarlane, Karen J.; Satoh, Yoshitaka;

Bhagwat, Shripad S.; Parnes, Jason S.; Palanki,

Moorthy S. S.; Erdman, Paul E.

PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 199 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.					KIND DATE			APPLICATION NO.											
WO	WO 2002046170					-	2002	0613	WO 2001-US46402										
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,		
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,		
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,		
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝŻ,	OM,	PH,		
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,		
		UG,	UΖ,	VN,	ΥU,	ZA,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM		
	RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	ΑT,	BE,	CH,		
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,		
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
CA	2430	966			AA		2002	0613	(CA 2	001-	2430	966		20	0011:	205 <		
AU	2002	0272	14		A5		2002	0618	Ž	AU 2	002-	27214	4		20	0011:	205 <		
EP	1349	840			A2		2003	1008	J	EP 2	001-	9961	03		20	0011	205		
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	ΝL,	SE,	MC,	PT,		
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑL,	TR								
JP	2004	5347	28		T2		2004	1118		JP 2	002-	54790	9		20	00112	205		
PRIORIT	Y APP	LN.	INFO	. :					Ţ	JS 2	000-	25190	04P]	P 20	00012	206		
									I	NO 2	001-	US464	102	Ī	W 20	0011	205		
OTHER S	OURCE	(S):			MAR	PAT	137:	3330	9										

GI

AB The title compds. [I; R1 = (un)substituted (hetero)aryl; R2 = H; R3 = H, alkyl; R4 = halo, OH, alkyl, alkoxy; R5, R6 = R8, (CH2)aCOR9, (CH2)aCO2R9, etc.; or NR5R6 = (un)substituted heterocycle; R8, R9 = H, alkyl, aryl, etc.; a = 0-4] having activity as inhibitors of the JNK pathway, were prepared E.g., a multi-step synthesis of I [R1 = 4-ClC6H4; R2-R6 = H] having an IC50 of \leq 10 μM in the JNK2 assay, was given. Such compds. I have utility in the treatment of a wide range of conditions that are responsive to inhibition of the JNK pathway. Thus, methods of

Ι

treating such conditions are also disclosed, as are pharmaceutical compns. containing one or more compds. of the above compds.

IT 90357-06-5, Bicalutamide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anticancer agent; preparation of anilinopyrimidines as JNK pathway inhibitors)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

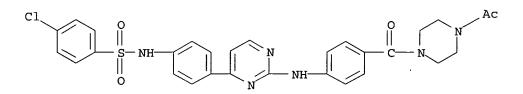
IT 434948-10-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of anilinopyrimidines as JNK pathway inhibitors)

RN 434948-10-4 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[4-[(4-chlorophenyl)sulfonyl]amino]phenyl]-2-pyrimidinyl]amino]benzoyl]- (9CI) (CA INDEX NAME)



L41 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:414656 HCAPLUS

DOCUMENT NUMBER: 137:262824

TITLE: A two-step synthesis of the anti-cancer drug

(R,S)-bicalutamide

AUTHOR(S): James, Kenneth D.; Ekwuribe, Nnochiri N.

CORPORATE SOURCE: Department of Innovation, Nobex Corporation, Durham,

NC, 27713, USA

SOURCE: Synthesis (2002), (7), 850-852

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:262824

GI

AB A short, efficient synthesis of the non-steroidal antiandrogen (R,S)-bicalutamide I is presented. This new route generates bicalutamide in only two steps with an overall yield of 73%. The key step is a 1,2-addition of 4-fluorophenyl methylsulfone to a keto-amide II.

IT90357-06-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (two-step synthesis of the anti-cancer drug (R,S)-bicalutamide via addition reaction of 4-fluorophenyl methylsulfone to keto-amide)

90357-06-5 HCAPLUS RN

Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-CN fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:240719 HCAPLUS

DOCUMENT NUMBER:

136:262992

TITLE:

Process for the preparation of N-(substituted phenyl)-3-alkyl-, aryl- and heteroarylsulfonyl-2-hydroxy-2-alkyl- and haloalkylpropanamide

antiandrogenic compounds

INVENTOR(S):

Chen, Bang-Chi; Sundeen, Joseph E.; Zhao, Rulin

Bristol-Myers Squibb Company, USA

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.					KIND DATE							ION 1	DATE						
WO	2002	0246	38		A1		20020328		,						20010917 <				
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,		
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,		
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	LR,		
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PH,	PL,		
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,		
		US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM			
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,		
		DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,		
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			
CA	2423	158			AA		2002	0328		CA 2	001-	2423	158		2	0010	917	< 	
US	2002	0869	02		A1		2002	0704		US 2	001-	9537	59		2	0010	917	<	
	6562																		
EP	1322	603			A1		2003	0702		EP 2	001-	9757	52		2	0010	917		
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	ΝL,	SE,	MC,	PT,		
								MK,											
	2004																		
CN	1501	912			Α		2004	0602		CN 2	001-	8189	33		2	0010	917		
BR	2001	0142	77		Α		2004	1221		BR 2	001-	1427	7		2	0010	917		
RIORIT	Y APP	LN.	INFO	.:						US 2	000-	2341	21P		P 2	0000	921		
										WO 2	001-	US42	171		W 2	0010	917		
THER SO	OURCE	(S):			CAS	REAC	T 13	6:26	2992	; MA	RPAT	136	:262	992					
Ι																			

The title compds. [I; Y = cyano, nitro, perfluoroalkyl, alkylcarbonyl, alkoxycarbonyl, alkylsulfonyl; R = perfluoroalkyl, cyano, nitro, alkylcarbonyl, alkoxycarbonyl, alkyl, alkoxy; R1 = (halo)alkyl; R2 = alkyl, aryl, heteroaryl; e.g., bicalutamide], useful for the treatment of androgen-mediated diseases (no data), are prepared without the use of chromatog. sepns. and expensive starting materials by phenylating propenamides H2NCOC(R1):CH2 (e.g., methacrylamide) with leaving group-substituted benzenes 1,2,4-C6H3Y(R)X (X = F, C1, Br, I, SO3R3; R3 =

alkyl, aryl; e.g., 4-fluoro-2-trifluoromethylbenzonitrile) so as to form a N-phenyl-substituted propenamides [II; e.g., N-[4-Cyano-3-(trifluoromethyl)phenyl]methacrylamide] which are then oxidized into the corresponding epoxides [III; e.g., N-[4-Cyano-3-(trifluoromethyl)phenyl]methacrylamide epoxide], converted into thioethers [IV; e.g., N-[4-Cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)thio]-2-hydroxy-2-methylpropanamide] by reaction with mercaptans R2SH (e.g., 4-fluorothiophenol), and then oxidized into their corresponding sulfones. 90357-06-5P, Bicalutamide
RL: SPN (Synthetic preparation); PREP (Preparation) (process for the preparation of N-(substituted phenyl)-3-alkyl-, aryl- and heteroarylsulfonyl-2-hydroxy-2-alkyl- and haloalkylpropanamide

antiandrogenic compds.)
RN 90357-06-5 HCAPLUS

IT

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:359958 HCAPLUS

DOCUMENT NUMBER: 134:366692

TITLE: Resolution of intermediates in the synthesis of

enantiomeric bicalutamide and analogs Ekwuribe, Nnochiri N.; James, Kenneth D.

PATENT ASSIGNEE(S): Nobex Corporation, USA SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

INVENTOR(S):

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2001034563	A1 20010517	WO 2000-US41609	20001025 <
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, B2	Z, CA, CH, CN,
CR, CU, CZ,	DE, DK, DM, DZ,	EE, ES, FI, GB, GD, GE	E, GH, GM, HR,
HU, ID, IL,	IN, IS, JP, KE,	KG, KP, KR, KZ, LC, LH	(, LR, LS, LT,
LU, LV, MA,	MD, MG, MK, MN,	MW, MX, MZ, NO, NZ, PI	J, PT, RO, RU,
SD, SE, SG,	SI, SK, SL, TJ,	TM, TR, TT, TZ, UA, UC	3, US, UZ, VN,
YU, ZA, ZW,	AM, AZ, BY, KG,	KZ, MD, RU, TJ, TM	
RW: GH, GM, KE,	LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZW, AT	f, BE, CH, CY,
DE, DK, ES,	FI, FR, GB, GR,	IE, IT, LU, MC, NL, PT	r, SE, BF, BJ,
CF, CG, CI,	CM, GA, GN, GW,	ML, MR, NE, SN, TD, TO	3
CA 2389100	AA 20010517	CA 2000-2389100	20001025 <

20001025 <--20020702 BR 2000-15124 BR 2000015124 Α EP 2000-989719 20001025 <--20020724 EP 1224167 A1 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL 20001025 20030415 JP 2001-536512 JP 2003513955 T2 20001025 US 2000-695884 US 6593492 B1 20030715 20001025 NZ 2000-518552 20031031 NZ 518552 Α 20020423 20030723 ZA 2002-3228 Α ZA 2002003228 20020426 <--NO 2002-1999 Α 20020620 NO 2002001999 19991027 US 1999-161884P Р PRIORITY APPLN. INFO.: W 20001025 WO 2000-US41609

MARPAT 134:366692 OTHER SOURCE(S):

Title enantiomeric acylanilides were prepared by resolution of R4ZZ1Z2CR1(OH)CO2H [R1 = (halo)alkyl; R4 = (hydroxy)alkyl, alkenyl, (un) substituted Ph, etc.; Z = bond or alkylene; Z1 = O, S00-2, (alkyl)imino; Z2 = alkylene] followed by amidation.

90357-06-5P, Bicalutamide TT

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(resolution of intermediates in the synthesis of enantiomeric bicalutamide and analogs)

90357-06-5 HCAPLUS RN

Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-CN fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS 3 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

2001:306242 HCAPLUS ACCESSION NUMBER:

135:87257 DOCUMENT NUMBER:

Homology Modeling Using Multiple Molecular Dynamics TITLE: Simulations and Docking Studies of the Human Androgen Receptor Ligand Binding Domain Bound to Testosterone

and Nonsteroidal Ligands

Marhefka, Craig A.; Moore, Bob M., II; Bishop, Thomas AUTHOR (S):

C.; Kirkovsky, Leonid; Mukherjee, Arnab; Dalton, James

T.; Miller, Duane D.

Department of Pharmaceutical Sciences College of CORPORATE SOURCE:

Pharmacy, University of Tennessee-Health Science

Center, Memphis, TN, 38163, USA

Journal of Medicinal Chemistry (2001), SOURCE:

44(11), 1729-1740

CODEN: JMCMAR; ISSN: 0022-2623

American Chemical Society PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

To facilitate the rational design of novel and more potent androgen AB receptor ligands, three-dimensional models for the human androgen receptor ligand binding domain bound to testosterone have been developed. These models of the androgen receptor were based on the crystal structure of the highly homologous human progesterone receptor ligand binding domain. homol. modeled androgen receptor was refined using unrestrained multiple mol. dynamics simulations in explicit solvent. Key H-bonding partners with the 17-hydroxy group and 3-keto group of testosterone are Asn705 and Thr877, and Gln711 and Arg752, resp. These models show the presence of a unique unoccupied cavity within the androgen receptor binding pocket which may be valuable in the development of novel selective androgen receptor ligands. A qual. anal. of amino acid mutations within the hAR binding pocket that affect ligand binding are consistent with these androgen receptor models. In addition to testosterone, the binding modes of several hydroxyflutamide-like nonsteroidal ligands for the androgen receptor are investigated using flexible docking with FlexX followed by refinement of the initial complexes with mol. dynamics simulations. These docking studies indicate that Asn705 is an important determinant in binding hydroxyflutamide and its derivs. by participating in H-bond interactions with the α -hydroxy moiety of these ligands. In addition, the nitro functionality mimics the 3-keto group of the natural ligand testosterone and is involved in H-bonding interactions with Gln711 and Arg752. From these docking studies, we suggest a mechanism for the enantioselective binding of chiral hydroxyflutamide derivs. and expand upon the previously reported structure-activity relationship for hydroxyflutamide and its derivs.

IT 90357-06-5, Bicalutamide

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(homol. modeling using multiple mol. dynamics simulations and docking studies of human androgen receptor ligand binding domain bound to testosterone and hydroxyflutamide derivative ligands)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

IT 106089-19-4 106138-80-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(in hydroxyflutamide derivative preparation for human androgen receptor ligand-binding structure-activity mol. dynamics simulation and docking studies)

RN 106089-19-4 HCAPLUS

CN 1H-Pyrrolo[2,1-c][1,4]oxazine-1,4(3H)-dione, 3-(bromomethyl)tetrahydro-3-methyl-, (3S,8aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 106138-80-1 HCAPLUS

CN 1H-Pyrrolo[2,1-c][1,4]oxazine-1,4(3H)-dione, 3-(bromomethyl)tetrahydro-3-methyl-, (3R,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 106089-20-7P 261904-39-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(in hydroxyflutamide derivative preparation for human androgen receptor ligand-binding structure-activity mol. dynamics simulation and docking studies)

RN 106089-20-7 HCAPLUS

CN Propanoic acid, 3-bromo-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 261904-39-6 HCAPLUS

CN Propanoic acid, 3-bromo-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:300671 HCAPLUS

DOCUMENT NUMBER: 134:326279

TITLE: Asymmetric synthesis and antiandrogenic use of

enantiomers of Casodex (bicalutamide) and derivatives

from enantiomers of citramalic acid or proline.

INVENTOR(S): Ekwuribe, Nnochiri

PATENT ASSIGNEE(S): Nobex Corporation, USA SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

GI

							APPLICATION NO.						DATE				
WO	200102	28990		A2	20010426			WO 2000-US41233						20001018 <			
WO	200102	28990		A3		2001	0907										
	W: 1	AE, AG	3, AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
	(CR, CI	J, CZ,	DE,	DK,	DM,	DZ,	EE.	ES.	FI.	GB.	GD,	GE.	GH.	GM.	HR.	
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								τ	JS 2	000-0	6916	21	i	A3 2	0001	018	
								1	NO 2	7-000	US41	233	Ţ	W 2	0001	018	
OTHER SO	OURCE (S	3):		CASI	REACT	r 13	4:32	5279	; MA	RPAT	134	:3262	279				

A method of synthesizing pure enantiomers of acylanilides such as Casodex AΒ (bicalutamide) is disclosed. The method involves contacting certain ring compds. including I, II, or similar gem-disubstituted epoxides with nucleophiles R7-R6-X1H under conditions sufficient to provide a compound R7-R6-X2-R2-C(OH)(R1)-CO2H [wherein; R1 is alkyl or haloalkyl up to C4; R2 is alkyl up to C6; R6 is a bond or alkyl up to C6; R7 is alk(en)yl, hydroxyalkyl, etc. or R7 is Ph (substituted with up to 3 substituents chosen from H, halo, nitro, carboxy, carbamoyl, etc.); X1 is O, SOO-2, or (alkyl)imino; X2 is O, S(O)0-2 or (oxidized)(alkyl)imino; X3 is a leaving group]. The starting ring compds. are those that, when opened, provide a substituent -R2-C(OH)(R1)-R3 [wherein; R3 is CH2OR4, where R4 is H, PhCH2, C(O)CH3, C(O)OR5, where R5 is H or alkyl]. In an exemplary embodiment, readily available (S)-citramalic acid is reacted with bromal to yield I (R9 = H, R10 is CBr3, R1 is β -Me, R2 is α -CH2 and X3 is CO2H; III). Compound III is condensed with 2-mercaptopyridine-N-oxide using DCC in CBrCl3 (solvent) at reflux which resulted in α bromination/decarboxylation to IV. Intermediate IV was sequentially treated with base and 4-fluorobenzenethiol, coupled with 4-amino-2-trifluoromethylbenzonitrile and oxidized with mCPBA to give (R)-Casodex (V). The order of steps in the conversion of I or II to compds. exemplified by V may vary (e.g. substitution and oxidation of a sidechain of I may precede ring opening). The conversion of (R)-citramalic acid to (S)-Casodex is also claimed. Addnl., the invention mentions a modification of a route previously described for the transformation of (R) - and (S) -proline to (R) - and (S) -Casodex that improves yield proceeding through a proline-derived intermediate II. Biol. data comparing (R)-, (S)- and (\pm) -Casodex, synthesized by this method, in lowering testosterone response showed (R)-Casodex to be substantially more potent than the (S)-isomer.

IT 90357-06-5, Casodex

RN

CN

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(asym. synthesis (and use) of (R) - and (S) - Casodex (bicalutamide) from (S) - and (R) - citramalic acid)

90357-06-5 HCAPLUS

Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

IT 113299-38-OP, S-Casodex 113299-40-4P, R-Casodex RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(asym. synthesis (and use) of (R) - and (S) -Casodex (bicalutamide) from (S) - and (R) -citramalic acid)

RN 113299-38-0 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 113299-40-4 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

IT 335595-50-1P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (asym. synthesis (and use) of (R) - and (S) - Casodex (bicalutamide) from (S) - and (R) - citramalic acid)

RN 335595-50-1 HCAPLUS

CN 1,3-Dioxolan-4-one, 5-(bromomethyl)-5-methyl-2-(tribromomethyl)-, (5R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L41 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:12441 HCAPLUS

DOCUMENT NUMBER: 134:86040

TITLE: Preparation of bicalutamide enantiomers

INVENTOR(S): Soros, Bela; Tuba, Zoltan; Galik, Gyorgy; Bor, Adam;

Demeter, Adam; Trischler, Ferenc; Horvath, Janos;

Brlik, Janos

PATENT ASSIGNEE(S): Richter Gedeon Vegyeszeti Gyar Rt., Hung.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT		KIN	IND DATE				APPL	ICAT:	ION I	DATE								
					_													
WO 2001000608				A1		20010104			WO 2000-HU49						20000526 <			
W :	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,		
	CU,	CZ,	DE,	DK,	DM,	DΖ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,		
	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,		

Sackey 10 682530

LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG EP 2000-937111 EP 1189898 Α1 20020327 20000526 <--EP 1189898 В1 20030312 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, R: IE, SI, LT, LV, FI, RO 20030315 AT 234294 Ε AT 2000-937111 20000526 ES 2188550 Т3 20030701 ES 2000-937111 20000526 PRIORITY APPLN. INFO.: HU 1999-1937 19990610 Α WO 2000-HU49 W 20000526

OTHER SOURCE(S): CASREACT 134:86040

AB Racemic HOCH2CMe(OH)CO2H was optically resolved and the enantiomers treated with SOCL2 to give the dioxothiolanonecarbonyl chloride which was amidated by H2NC6H3(CF3)(CN)-3,4. The deprotected dihydroxyamide was O-acylated by RSO2Cl (R = 4,Me- or -BrC6H4) and the product thioetherified by 4-FC6H4SNa to give, after oxidation, the title compds.

RN 316374-01-3 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 3-[[4-cyano-3-(trifluoromethyl)phenyl]amino]-2-hydroxy-2-methyl-3-oxopropyl ester (9CI) (CA INDEX NAME)

RN 316374-02-4 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (2R)-3-[[4-cyano-3-(trifluoromethyl)phenyl]amino]-2-hydroxy-2-methyl-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 316374-03-5 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (2S)-3-[[4-cyano-3-

Sackey 10_682530

(trifluoromethyl)phenyl]amino]-2-hydroxy-2-methyl-3-oxopropyl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 90357-06-5P 113299-38-0P 113299-40-4P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of bicalutamide enantiomers)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

RN 113299-38-0 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 113299-40-4 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998

1998:804210 HCAPLUS

DOCUMENT NUMBER:

130:49289

TITLE: Nonsteroidal radiolabeled androgen receptor

agonist/antagonist compounds, preparation, and use in

prostate cancer imaging

INVENTOR(S): Miller, Duane D.; Kirkovsky, Leonid I.; Dalton, James

T.; Mukherjee, Arnab

PATENT ASSIGNEE(S):

The University of Tennessee Research Corp., USA

PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

SOURCE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIND DATE			APPLICATION NO.					DATE				
	- -		-			-									-		-
WO	WO 9855153				A1	A1 19981210			1	WO 1998-US11483					19980604 <		
	W:	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	GW,	HU,	ID,	IL,	IS,	JP,	KΕ,	KG,
		ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,
		UΑ,	ŪĠ,	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM	
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	ΑT,	ΒE,	CH,	CY,	DE,	DK,	ES,
		FI,	FŔ,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GA,	GN,	ML,	MR,	ΝE,	SN,	TD,	TG							
AU	9877	231			A1		1998	1221		AU 1	998-	7723	1		19	9980	504 <
US	6019	957			Α		2000	0201	1	US 1	998-	9042	5		1:	9980	504 <
US	2002	0981	48		A1		2002	0725	1	US 1	999-	4615	43		1:	9991	215 <
PRIORITY	APP	LN.	INFO	.:					1	US 1	997-	4937	6P]	P 1	9970	504
								US 1998-90425				Ž	A3 19980604				
							WO 1998-US11483				W 19980604						

OTHER SOURCE(S): MARPAT 130:49289

AB Anilide radiolabeled androgen receptor ligands are provided, as is their use in methods of imaging the prostate. Compound preparation is also described.

IT 217170-51-9P

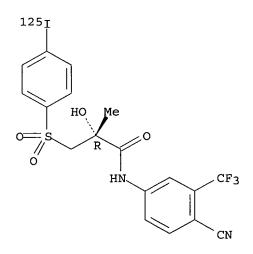
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nonsteroidal radiolabeled androgen receptor agonist/antagonist compds., preparation, and use in prostate cancer imaging)

RN 217170-51-9 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-2-hydroxy-3-[[4-(iodo-125I)phenyl]sulfonyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L41 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:161557 HCAPLUS

DOCUMENT NUMBER: 108:161557

TITLE: Nonsteroidal antiandrogens. Synthesis and

structure-activity relationships of 3-substituted

Sackey 10_682530

derivatives of 2-hydroxypropionanilides

AUTHOR (S):

Tucker, Howard; Crook, J. W.; Chesterson, G. J.

CORPORATE SOURCE: Pharm. Div., Imp. Chem. Ind. PLC, Macclesfield/Cheshire, AK10 4TG, UK

Journal of Medicinal Chemistry (1988),

31(5), 954-9

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

Journal

LANGUAGE:

SOURCE:

English

OTHER SOURCE(S):

CASREACT 108:161557

GI

$$\begin{array}{c|c} & & & \\ & & & \\ R4 & & & \\ & & \\ & &$$

A series of hydroxypropionanilides of general structure I and II (R1,R2 = AΒ NO2, CF3, CN, or Cl; R3 = CF3 or CH3; R4 = H, Cl, F, NO2, CN, MeO, or MeS; X = S, SO, or SO2; and R = alkyl or heterocyclic derivs.) were prepared and tested for antiandrogen activity by their effects on accessory sex organs in rats. A series of compds. where R3 = CF3 generally exhibited partial androgen agonist activity, whereas those compds. where R3 = CH3 were pure antagonists. Optimization of the latter series of compds. led to novel, potent antiandrogens which were peripherally selective.

90357-06-5P IT

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and antiandrogen activity of, structure in relation to)

RN90357-06-5 HCAPLUS

CNPropanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with thiols)

RN 598-31-2 HCAPLUS

2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME) CN

L41 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:150026 HCAPLUS

DOCUMENT NUMBER: 108:150026

TITLE: Resolution of the non-steroidal antiandrogen

4'-cyano-3-(4-fluorophenylsulfonyl)-2-hydroxy-2-methyl-

3'-(trifluoromethyl)propionanilide and the

determination of the absolute configuration of the

active enantiomer

AUTHOR(S): Tucker, Howard; Chesterson, Glynne J.

CORPORATE SOURCE: Pharm. Div., Imp. Chem. Ind. PLC,

Mereside/Macclesfield/Cheshire, SK10 4TG, UK

SOURCE: Journal of Medicinal Chemistry (1988),

31(4), 885-7

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:150026

GI

AB The nonsteroidal antiandrogen 4'-cyano-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-3'-(trifluoromethyl)propionanilide (I) has been resolved by chromatog. separation of the diastereomeric (R)-camphanyl esters of the precursor thioether followed by hydrolysis and oxidation of the isolated enantiomers. In addition, an asym. synthesis of (S)-3-bromo-2-hydroxy-2-methylpropanoic acid and subsequent conversion into the (S)-sulfone has established that the more potent enantiomer of I has the R absolute configuration.

IT 113299-38-0P 113299-40-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and antiandrogen activity of)

RN 113299-38-0 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 113299-40-4 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

IT 106089-19-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and hydrolysis of)

RN 106089-19-4 HCAPLUS

CN 1H-Pyrrolo[2,1-c][1,4]oxazine-1,4(3H)-dione, 3-(bromomethyl)tetrahydro-3-methyl-, (3S,8aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

106089-20-7P IT

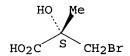
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, chlorination, and amidation of)

106089-20-7 HCAPLUS RN

CN Propanoic acid, 3-bromo-2-hydroxy-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L41 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1984:454739 HCAPLUS

DOCUMENT NUMBER:

101:54739

TITLE:

Amide derivatives

INVENTOR(S):

Tucker, Howard Imperial Chemical Industries PLC, UK

PATENT ASSIGNEE(S): SOURCE:

Eur. Pat. Appl., 53 pp.

DOCUMENT TYPE:

CODEN: EPXXDW

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 100172 EP 100172	A1 B1	19840208 19870812	EP 1983-303998	19830708 <
R: AT, BE, CH,		, GB, IT, L	I, LU, NL, SE	
AT 28864	E	19870815	AT 1983-303998	19830708 <
IL 69217	A1	19870331	IL 1983-69217	19830713 <
ZA 8305182	Α	19840530	ZA 1983-5182	19830715 <
US 4636505	Α	19870113	US 1983-514332	19830715 <
NO 8302599	Α	19840124	NO 1983-2599	19830718 <
NO 164974	В	19900827		
NO 164974	С	19901205		
AU 8316937	A1	19840126	AU 1983-16937	19830718 <
AU 556328	B2	19861030		
HU 32058	0	19840628	HU 1983-2531	19830718 <
HU 191296	В	19870227		
FI 8302644	Α	19840124	FI 1983-2644	19830720 <
FI 83770	В	19910515		
FI 83770	С	19910826		

Sackey 10 682530

JP	59033250	A2	19840223	JΡ	1983-131085		19830720 <
JP	04032061	B4	19920528				
CA	1249823	A1	19890207	CA	1983-432811		19830720 <
ES	524392	A1	19851101	ES	1983-524392		19830722 <
ES	539614	A1	19860601	ES	1985-539614		19850116 <
ES	539615	A1	19860601	ES	1985-539615		19850116 <
ES	544189	A1	19860916	ES	1985-544189		19850614 <
JP	02131462	A2	19900521	JP	1989-230574		19890907 <
PRIORIT	Y APPLN. INFO.:			GB	1982-21421	Α	19820723
				ΕP	1983-303998	Α	19830708

GΙ

$$R \xrightarrow{R1} NR^3 COCR^4 R^5 ZZ^1 R^6$$

AB Antiandrogenic (no data) alkananilides including I [R = alkanoyl, halo, cyano, NO2, alkylthio, alkylsulfinyl, alkylsulfonyl, PhS, PhSO, PhSO2, etc.; R1 = H, alkyl, alkoxy, R; R2 = H, halo; R3 = H, alkyl; R4 = H, OH, alkoxy, acyloxy; R5 = alkyl, haloalkyl; R4R5 = CO2; R6 = (un)substituted alkyl, alkenyl, Ph, naphthyl, heterocyclyl; Z = bond, alkylene; Z1 = O, S, S(O), SO2, NR7; R7 = H, alkyl] (124 compds.) were prepared Thus, Me 2,3-epoxy-2-methylpropionate, prepared by epoxidn. of H2C:CMeCO2Me, was treated with NaH and PhSH to give PhSCH2CMe(OH)CO2Me. This was saponified to give the free acid which was treated with SOCl2 and 4,3-(NC)(F3C)C6H3NH2 to give 4,3-(NC)(F3C)C6H3NHCOCMe(OH)CH2SPh.

IT 58653-97-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and condensation of, with thiols)

Ι

RN 58653-97-7 HCAPLUS

CN Oxiranecarboxylic acid, 2-methyl-, methyl ester (9CI) (CA INDEX NAME)

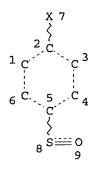
IT 90357-06-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 90357-06-5 HCAPLUS

CN Propanamide, N-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

=> => d stat que L2 STR



NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

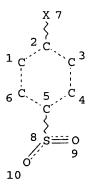
RSPEC I

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

L3 120699 SEA FILE=REGISTRY SSS FUL L2

L4 STR



NODE ATTRIBUTES:

GRAPH ATTRIBUTES:

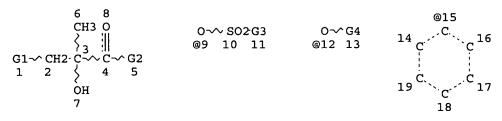
DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

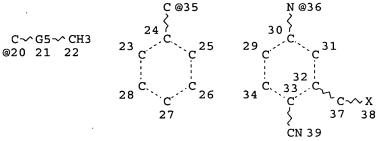
Page 44

RSPEC I NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L5 51757 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L9 STR





VAR G1=X/9
VAR G2=OH/12
VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36
REP G5=(3-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE L10 STR

Sackey 10_682530

VAR G2=OH/12

VAR G4=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/20/CB/35/36

REP G5 = (3-4) C

REP G6 = (0-3) A

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

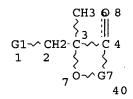
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 30

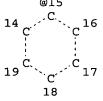
STEREO ATTRIBUTES: NONE

L11

STR



O→ SO2G3 @9 10 11



VAR G1=X/9

VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15

REP G7 = (2-7) A

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

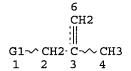
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

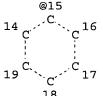
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L12 STR



O-√ SO2G3 @9 10 11



VAR G1=X/9

VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

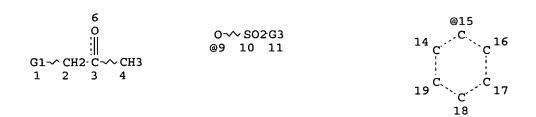
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L13

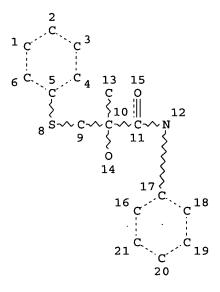
STR



VAR G1=X/9
VAR G3=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/15
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE L17 STR



NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L20 1437 SEA FILE=REGISTRY SSS FUL L9 OR L10 OR L11 OR L12 OR L13

L22 210 SEA FILE=REGISTRY SSS FUL L17

L23 STR

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

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L25	484	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L24
L26	15691	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L5
L27	8894	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L20
L28	2	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L25 AND L26 AND L27
L32	89	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L26 AND L27
L36	27	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L24/P
L37	14	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L25 AND L26
L38	12	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L25 AND L27
L39	70	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L32 AND PD= <october 2002<="" 9,="" td=""></october>
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L42	70	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L39 NOT (L41 OR L28)
L45	3967	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L26 (L) REACTANT/RL
L46	6032	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L27 (L) REACTANT/RL
L47	32	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	(L45 AND L46) AND L42

=> d ibib abs hitstr 147 1-32

L47 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:796768 HCAPLUS

DOCUMENT NUMBER: 138:338037

TITLE: Herbicidal thiochroman and dihydrobenzothiophene-N, N-

disubstituted pyrazolinones ·

AUTHOR(S): Anon.

Sackey 10 682530

CORPORATE SOURCE:

UK

SOURCE:

Research Disclosure (2002), 461 (Sept.),

P1676-P1692 (No. 461084)

CODEN: RSDSBB; ISSN: 0374-4353 Kenneth Mason Publications Ltd.

PUBLISHER: DOCUMENT TYPE:

Journal; Patent

DOCOMENT TIP

English

LANGUAGE:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

RD 461084

20020910

PRIORITY APPLN. INFO.:

RD 2002-461084

20020910

OTHER SOURCE(S):

CASREACT 138:338037

AB Numerous N,N-disubstituted pyrazolinone compds., which were highly effective in controlling undesirable plant species, are disclosed. The methods for the control of undesirable plant species which could also be useful in the presence of an essential agronomic crop are presented.

IT 1458-98-6, 3-Bromo-2-methyl-1-propene 516500-85-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepns. of thiochroman and dihydrobenzothiophene-N,N-disubstituted pyrazolinone derivs. as herbicidal agents)

RN 1458-98-6 HCAPLUS

CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{CH}_2 \\ \parallel \\ \text{H}_3\text{C--C-CH}_2\text{--Br} \end{array}$$

RN 516500-85-9 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 4-[[3,4-dihydro-4-(methoxyimino)-5-methyl-1,1-dioxido-2H-1-benzothiopyran-6-yl]carbonyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)

L47 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:594840 HCAPLUS

DOCUMENT NUMBER:

137:154858

TITLE:

Preparation of arylsulfonamidopiperidones as

inhibitors of Factor Xa.

Sackey 10_682530

INVENTOR(S):

Stein, Philip P.; O'Connor, Stephen P.; Lawrence, R.
Michael; Shi, Yan

PATENT ASSIGNEE(S):

Bristol-Myers Squibb Company, USA

SOURCE:

PCT Int. Appl., 246 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	KIND DATE	APPLICATION NO.	DATE			
	A2 20020808	WO 2002-US2542	20020128 <			
W: AE, AG, AL, CO, CR, CU, GM, HR, HU, LS, LT, LU, PL, PT, RO, UA, UG, US, TJ, TM RW: GH, GM, KE, CY, DE, DK,	AM, AT, AU, AZ, CZ, DE, DK, DM, ID, IL, IN, IS, LV, MA, MD, MG, RU, SD, SE, SG, UZ, VN, YU, ZA, LS, MW, MZ, SD, ES, FI, FR, GB,	BA, BB, BG, BR, BY, DZ, EC, EE, ES, FI, JP, KE, KG, KP, KR, MK, MN, MW, MX, MZ, SI, SK, SL, TJ, TM, ZM, ZW, AM, AZ, BY, SL, SZ, TZ, UG, ZM, GR, IE, IT, LU, MC, GN, GQ, GW, ML, MR,	GB, GD, GE, GH, KZ, LC, LK, LR, NO, NZ, OM, PH, TN, TR, TT, TZ, KG, KZ, MD, RU, ZW, AT, BE, CH, NL, PT, SE, TR,			
CA 2436774	AA 20020808	CA 2002-2436774	20020128 <			
R: AT, BE, CH, IE, SI, LT,	DE, DK, ES, FR, LV, FI, RO, MK,		NL, SE, MC, PT,			
	B1 20030429	JP 2002-561043 US 2002-59621 US 2001-264964P WO 2002-US2542	20020129 P 20010130			
OTHER SOURCE(S):	MARPAT 137:1548	58				

$$R^{1}SO_{2}N$$
 R^{4}
 $R^{1}SO_{2}N$
 R^{6}
 R^{1}
 R^{5}
 R^{5}
 R^{5}
 R^{5}
 R^{5}
 R^{5}
 R^{5}
 R^{5}

GI

Title compds. [I; X = (substituted) (CH2)m; m = 1-3; R1 = (substituted) alkyl, alkenyl, alkynyl, aryl, heteroaryl, etc.; R2, R3 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R4, R41, R5, R51 = H, OH, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, alkoxy, etc.; R6, R61 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R7, R8 = (substituted) (CH2)nH; n = 1-4; R7R8N = (substituted) cycloheteroalkyl], were prepared as cardiovascular agents (no data). 974 I, including (II), were prepared IT 445271-15-8P 445274-86-2P 445277-69-0P

445278-08-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

Sackey 10 682530

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylsulfonamidopiperidones as inhibitors of Factor Xa) RN 445271-15-8 HCAPLUS

CN Pyrrolidine, 1-[[3-[[(4-bromophenyl)sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]- (9CI) (CA INDEX NAME)

RN 445274-86-2 HCAPLUS

CN Pyrrolidine, 1-[[(3S)-3-[[(4-bromophenyl)sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-2-(1-pyrrolidinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 445277-69-0 HCAPLUS

CN 2-Pyrrolidinemethanamine, N-[(4-chlorophenyl)sulfonyl]-1-[[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

RN 445278-08-0 HCAPLUS
CN 2-Pyrrolidinemethanamine, N-[(4-chlorophenyl)sulfonyl]-1-[[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-piperidinyl]acetyl], (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

RN 445274-86-2 HCAPLUS
CN Pyrrolidine, 1-[[(3S)-3-[[(4-bromophenyl)sulfonyl]amino]-2-oxo-1piperidinyl]acetyl]-2-(1-pyrrolidinylmethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L47 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:575041 HCAPLUS

DOCUMENT NUMBER:

137:140338

TITLE:

Preparation of aminoethanol derivatives as cholesteryl

ester transfer protein inhibitors for treatment of

hyperlipidemia, etc.

INVENTOR(S):

Kori, Masakuni; Hamamura, Kazumasa; Fuse, Hiromitsu;

Yamamoto, Toshihiro

PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE:

PCT Int. Appl., 748 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE		DATE			
WO 2002059077	A1 20020801	WO 2002-JP532	20020125 <			
		BA, BB, BG, BR, BY, B				
CO, CR, C	U, CZ, DE, DK, DM,	DZ, EC, EE, ES, FI, G	B, GD, GE, GH,			
		JP, KE, KG, KR, KZ, L				
		MN, MW, MX, MZ, NO, N				
PT, RO, I	U, SD, SE, SG, SI,	SK, SL, TJ, TM, TN, T	R, TT, TZ, UA,			
UG, US, T	Z, VN, YU, ZA, ZM,	ZW, AM, AZ, BY, KG, K	Z, MD, RU, TJ, TM			
RW: GH, GM, I	E, LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZM, Z	W, AT, BE, CH,			
CY, DE, I	K, ES, FI, FR, GB,	GR, IE, IT, LU, MC, N	L, PT, SE, TR,			
BF, BJ, G	F, CG, CI, CM, GA,	GN, GQ, GW, ML, MR, N	E, SN, TD, TG			
JP 2002293764	A2 20021009	JP 2002-17487	20020125 <			
EP 1362846	A1 20031119	EP 2002-710345				
R: AT, BE, (H, DE, DK, ES, FR,	GB, GR, IT, LI, LU, N	L, SE, MC, PT,			
	T, LV, FI, RO, MK,					
		US 2003-470351	20030725			
PRIORITY APPLN. INFO.		JP 2001-19280	A 20010126			
		WO 2002-JP532	W 20020125			

OTHER SOURCE(S): MARPAT 137:140338

AB The title compds. Ar1CH(OR'')CH(CH2Ar2)NR'R [Ar1 represents an optionally substituted aromatic ring group; Ar2 represents a substituted aromatic ring group; OR'' represents optionally protected hydroxy; R represents acyl; and R' represents hydrogen or optionally substituted hydrocarbyl] are prepared Compds. of this invention in vitro showed IC50 values of 0.0084 μM to 0.4 μM against cholesteryl ester transfer protein. A process for preparing the title compds. is claimed.

IT 444912-33-8P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);

PREP (Preparation); USES (Uses)

(preparation of aminoethanol derivs. as cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia)

RN 444912-33-8 HCAPLUS

CN

Benzenesulfonamide, 4-fluoro-N-[2-(4-fluorophenyl)-2-hydroxy-1-[[4-(trifluoromethyl)phenyl]methyl]ethyl]- (9CI) (CA INDEX NAME)

IT 78-95-5, Chloroacetone

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of aminoethanol derivs. as cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia)

RN 78-95-5 HCAPLUS

CN 2-Propanone, 1-chloro- (8CI, 9CI) (CA INDEX NAME)

IT 444913-21-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

8

(preparation of aminoethanol derivs. as cholesteryl ester transfer protein inhibitors for treatment of hyperlipidemia)

RN 444913-21-7 HCAPLUS

CN Benzenesulfonamide, 4-fluoro-N-[2-(4-fluorophenyl)-2-oxo-1-[[4-(trifluoromethyl)phenyl]methyl]ethyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

Sackey 10_682530

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:772163 HCAPLUS

DOCUMENT NUMBER: 135:318510

TITLE: Preparation of arylpyridazinones as prostaglandin

endoperoxide H synthase biosynthesis inhibitors

INVENTOR(S): Black, Lawrence A.; Basha, Anwer; Kolasa, Teodozyj;

Kort, Michael E.; Liu, Huaqing; McCarty, Catherine M.;
Patel, Meena; Rohde, Jeffrey J.; Coghlan, Michael J.;

Stewart, Andrew O.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: U.S., 129 pp., Cont.-in-part of U.S. Ser. No. 261,872,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

	TENT			KIND DATE					APPLICATION NO.						DATE			
	6307				В1												.027 <	
	2000								TR 2000-200000478									
CA	2347	982			AA		2000	0504		CA 1999-2347982 WO 1999-US25234					19991027 <			
WO	2000	0247	19		A1		2000	0504		WO 1	999-	US25	234		19991027 <			
	W:						AZ,											
							ES,											
							KP,											
							MX,											
							TT,											
							TJ,		,	,	- -,	,	,	,		,	,	
	RW:	•			•	•	SD,		SZ.	TZ.	UG.	ZW.	AT.	BE.	СН	. CY.	DE.	
							GR,											
							GW,							,		20,	02,	
AU	9965		,	,	A1		2000									19991	.027 <	
AU	7732	37			B2		2004											
EP	1124	804			A1		2001	0822		EP 1	999-	9532	59			19991	.027 <	
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		ΙE,	SI,	LT,	LV,	FI,	RO											
BR	9914	858			Α		2002	0205		BR 1	999-	1485	8			19991	.027 <	
	2001				T2		2002	0221		TR 2	001-	2001	0176!	5	:	L9991	.027 <	
	2003						2003	0402		JP 2	000-	5782	89		:	19991	.027	
ZA	2001	0033	10		Α		2002	0723		ZA 2	001-	3310			2	20010	423 <	
NO	2001	0020	61		Α		2001	0627		NO 2	001-	2061			2	20010	426 <	
BG	1055	23			A A1		2001	1231		BG 2	001-	1055	23		2	20010	519 <	
US	2002	0133	18		A1		2002	0131	•	US 2	001-	8711	95		- 2	20010	531 <	
	2002				A1		2002			US 2	001-	8708					531 <	
US	2003	2252			A1		2003	1204		US 2	003-	4179	59		- 2	20030	417	
	2004				A1		2004	0812		US 2						20030		
PRIORIT	Y APP	LN.	INFO	.:						US 1			3 P		P :	19970	822	
		•								US 1					B2 :	19980	805	
										US 1						19980		
										US 1						19981		
	•									US 1						19990		
										US 1						19970		
										US 1						19990		
									•	US 1	999-	4277	68			19991		
										WO 1	999-1	US25	234			19991		
									•	US 2	001-	8708	38		B3 2	20010	531	

US 2001-871195 B3 20010531

OTHER SOURCE(S):

MARPAT 135:318510

GI

$$R^3$$
 N
 R
 R^2
 X
 R^1
 X

$$X^2$$
 X^2
 Y^2
 Y^2

The title compds. [I; X = O, S, NR4, etc.; R4 = alkyl, alkenyl, cycloalkyl, etc.; R = H, alkyl, alkenyl, etc.; at least one of R1-R3 = II-III (wherein X1 = SO2, SO(NR10), SO, etc.; R9 = alkyl, alkenyl, alkynyl, etc.; X2 = H, halo, alkyl, etc.; R10 = H, alkyl, cycloalkyl); the remaining two of the groups of R1-R3 = H, OH, hydroxyalkyl, etc.] which are cyclooxygenase (COX) inhibitors, and in particular, are selective inhibitors of cyclooxygenase-2 (COX-2), and therefore are useful in treating pain, fever, inflammation, rheumatoid arthritis, and osteoarthritis, were prepared Thus, oxidation of

2-benzyl-4-(4-fluorophenyl)-5-

[4-(methylthio)phenyl]-3(2H)-pyridazinone (preparation given) with MeCO3H in CH2Cl2 afforded 86% I [X = 0; R = PhCH2; R1 = 4-FC6H4; R2 = 4-(MeSO2)C6H4; R3 = H], which showed IC50 of 0.014 μM against COX-2. COX-2 is the inducible isoform associated with inflammation, as opposed to the constitutive isoform, cyclooxygenase-1 (COX-1) which is an important "housekeeping" enzyme in many tissues, including the gastrointestinal (GI) tract and the kidneys. The selectivity of the compds. I for COX-2 minimizes the unwanted GI and renal side-effects seen with currently marketed non-steroidal anti-inflammatory drugs (NSAIDs).

IT 563-47-3, 3-Chloro-2-methylpropene 701-34-8,

4-Aminosulfonyl-1-bromobenzene

RL: RCT (Reactant); RACT (Reactant or reagent) (reactant; preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors)

RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:265252 HCAPLUS

DOCUMENT NUMBER: 134:295810

TITLE: Synthesis and use of substituted pyrrolidin-1-yl

hexanoic acid derivatives as $\alpha \nu \beta 3$ and

ανβ5 integrin receptors

INVENTOR(S): Askew, Ben C.; Smith, Garry R.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.				
WO 2001024797	A1 20010412	WO 2000-US27033				
W: AE, AG,	L, AM, AT, AU, AZ,	BA, BB, BG, BR, BY,	BZ, CA, CH, CN,			
		EE, ES, FI, GB, GD,				
HU, ID,	L, IN, IS, JP, KE,	KG, KR, KZ, LC, LK,	LR, LS, LT, LU,			
LV, MA, I	D, MG, MK, MN, MW,	MX, MZ, NO, NZ, PL,	PT, RO, RU, SD,			
SE, SG,	I, SK, SL, TJ, TM,	TR, TT, TZ, UA, UG,	US, UZ, VN, YU,			
ZA, ZW, Z	M, AZ, BY, KG, KZ,	MD, RU, TJ, TM				
RW: GH, GM,	E, LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZW,	AT, BE, CH, CY,			
DE, DK, 1	S, FI, FR, GB, GR,	IE, IT, LU, MC, NL,	PT, SE, BF, BJ,			
CF, CG, (I, CM, GA, GN, GW,	ML, MR, NE, SN, TD,	TG .			
CA 2386030	AA 20010412	CA 2000-2386030	20000929 <			
EP 1229910	A1 20020814	EP 2000-967201	20000929 <			
R: AT, BE, 0	H, DE, DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT,			
	r, LV, FI, RO, MK,					
JP 2003510360	T2 20030318	JP 2001-527796	20000929			
US 6413955	B1 20020702	US 2000-677677	20001002 <			
PRIORITY APPLN. INFO.		US 1999-157490P				
		WO 2000-US27033	W 20000929			
OTHER SOURCE(S):	MARPAT 134:2958					

II

Compds. of formula I [wherein; W is a 5 or 6 membered monocyclic (aromatic) AΒ ring having 1-4 heteroatoms (N, O or S) wherein the ring nitrogen atoms are unsubstituted or substituted with 1 or 2 R1 groups, or a 9-14 membered polycyclic ring system, wherein the polycyclic ring system has 1-4 heteroatoms (N, O or S) in which the N atoms are substituted as described above; Y is (CH2)m, (CH2)m-(O, NR2 or S(0)0-2)-(CH2)n, etc., where any CH2 can be substituted with 1 or 2 R3 groups, m is 0-3 and n is 0-3; Z is a 5-6 membered heterocyclic system having 1-3 heteroatoms (N, O or S) optionally substituted with one or more R9 group and when 2 R9 substituents are on the same C-atom, they are taken together to form a C3-C6 cycloalkyl group; R1 is H, halo, (cyclo)alkyl, cycloheteroalkyl, aryl(alkyl), amino(alkyl), etc.; R2 is H, alkyl, aryl(alkyl), aminocarbonyl, cycloalkyl, aminoalkyl, etc.; R3 is H, alkyl, aryl(alkyl), halo, OH, oxo, CF3, etc.; R4 and R5 are H, alkyl, aryl(alkyl), halo, OH, alkylcarbonylamino, etc. or taken together the C-atom to form a CO; R6 and R7 are H, alkyl, aryl(alkyl), halo, OH, etc.; R8 is H, alkyl, aryl(alkyl), alkylcarbonyloxyalkyl, etc.; R9 is H, alkyl, aryl, halo, OH, etc.;]. Several examples of I are provided. For instance II was synthesized in 14 steps as a single enantiomer. Compds. I are antagonists of the integrin receptors $\alpha\nu\beta3$ and/or $\alpha\nu\beta5$. Compds. I were found to bind to human $\alpha \nu \beta 3$ integrin with IC50 values less than 10 nM and to the $\alpha\nu\beta5$ integrin receptor with IC50 values less than 100 nM in competitive binding assays. A bone resorption-pit assay demonstrated the ability of compds. I to inhibit osteoclasts (bovine bone slices). Claimed uses for I are for inhibiting bone resorption, treating and preventing osteoporosis, inhibiting vascular restenosis, diabetic retinopathy, macular degeneration, angiogenesis, atherosclerosis, inflammatory arthritis, cancer, and metastatic tumor growth.

IT 204452-42-6P 312263-47-1P

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (preparation and use of substituted pyrrolidin-1-yl hexanoic acid derivs. as $\alpha\nu\beta3$ and $\alpha\nu\beta5$ integrin receptor antagonists)

RN 204452-42-6 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[[4-(iodo-

125I)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 312263-47-1 HCAPLUS

CN L-Alanine, N-[[4-(iodo-125I)phenyl]sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 1458-98-6, 3-Bromo-2-methylpropene

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and use of substituted pyrrolidin-1-yl hexanoic acid derivs. as $\alpha\nu\beta3$ and $\alpha\nu\beta5$ integrin receptor

antagonists)

RN 1458-98-6 HCAPLUS CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)

IT 204452-34-6P 204452-35-7P 204452-36-8P 204452-39-1P 204452-40-4P 312263-44-8P

312263-45-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and use of substituted pyrrolidin-1-yl hexanoic acid derivs. as $\alpha\nu\beta3$ and $\alpha\nu\beta5$ integrin receptor

antagonists)

RN 204452-34-6 HCAPLUS

CN L-Asparagine, N2-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 204452-35-7 HCAPLUS

CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 204452-36-8 HCAPLUS

CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 204452-39-1 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 204452-40-4 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 312263-44-8 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 312263-45-9 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:911080 HCAPLUS

DOCUMENT NUMBER: 134:56581

TITLE: Preparation of piperidinealkanoates as αv

integrin antagonists

INVENTOR(S): Duggan, Mark E.; Hartman, George D.; Perkins, James

J.; Ihle, Nathan

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2000078317		WO 2000-US16849	20000619 <
W: AE, AG, AI	, AM, AT, AU, AZ,	BA, BB, BG, BR, BY,	BZ, CA, CH, CN,
CR, CU, CZ	, DE, DK, DM, DZ,	EE, ES, FI, GB, GD,	GE, GH, GM, HR,
		KG, KR, KZ, LC, LK,	
LV, MA, MI	, MG, MK, MN, MW,	MX, MZ, NO, NZ, PL,	PT, RO, RU, SD,
SE, SG, SI	, SK, SL, TJ, TM,	TR, TT, TZ, UA, UG,	US, UZ, VN, YU,
ZA, ZW, AN	, AZ, BY, KG, KZ,	MD, RU, TJ, TM	
RW: GH, GM, KE	, LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZW,	AT, BE, CH, CY,
DE, DK, ES	, FI, FR, GB, GR,	IE, IT, LU, MC, NL,	PT, SE, BF, BJ,
CF, CG, CI	, CM, GA, GN, GW,	ML, MR, NE, SN, TD,	TG
CA 2376077	AA 20001228	CA 2000-2376077	20000619 <
EP 1194151	A1 20020410	EP 2000-942941	20000619 <
R: AT, BE, CH	, DE, DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT,
IE, SI; LT	, LV, FI, RO		
AU 748949	B2 20020613	AU 2000-57490	20000619 <
JP 2003502373			20000619
US 6358970	B1 20020319	US 2000-599088	20000621 <
PRIORITY APPLN. INFO.:		US 1999-140535P	P 19990623
		WO 2000-US16849	W 20000619
OTHER SOURCE(S):	MARPAT 134:5658	1	

Ι

RN 1458-98-6 HCAPLUS CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 204452-35-7 HCAPLUS
CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 204452-36-8 HCAPLUS

CN L-Alanine, 3-amino-N-[(4-iodophenyl)sulfonyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 204452-39-1 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 204452-40-4 HCAPLUS

CN L-Alanine, 3-[[4-[2-(6-amino-2-pyridinyl)ethyl]benzoyl]amino]-N-[(4-iodophenyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 312263-44-8 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 312263-45-9 HCAPLUS

CN L-Alanine, N-[(4-iodophenyl)sulfonyl]-3-[[4-[2-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)ethyl]benzoyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2000:725459 HCAPLUS

7

Sackey 10_682530

DOCUMENT NUMBER:

133:296373

TITLE:

Preparation of 3-phenyl-4-

(heterocyclylmethyl)pyrrolidine modulators of

chemokine receptor activity

INVENTOR(S):

Caldwell, Charles; Chapman, Kevin; Hale, Jeffrey; Kim, Dooseop; Lynch, Christopher; Maccoss, Malcolm; Mills, Sander G.; Willoughby, Christopher; Berk, Scott; Kim,

Ronald M.

PATENT ASSIGNEE(S): SOURCE:

Merck and Co., Inc., USA PCT Int. Appl., 202 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIND DATE			APPLICATION NO.					DATE				
						-											
WO	WO 2000059498					A1 20001012			WO 2000-US9074					20000405 <			
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,
		CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,
		ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,
		ΜA,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,
		SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZW,
		AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM							
	RW:	,			•		-	SL,									
		DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	ΝL,	PT,	SE,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG				
US	US 6498161				B1		2002	1224						20000404			
PRIORITY	APP	LN.	INFO	.:					1	US 1	999-	1281	72P		P 1	9990	406
OTHER SO	OTHER SOURCE(S):				MARPAT 133:2963				73								
GI																	

The title compds. (I) [wherein R1 = CO2H, NO2, tetrazolyl, AB hydroxyisoxazole, SO2NH(alkyl)R9, or PO3H2; R9 = H, (cyclo)alkyl, benzyl, or (un) substituted phenyl; R2 = (un) substituted piperidinyl, tetrahydropyridinyl, piperazinyl, or 1-oxa-8-azaspiro[4.5]decyl; R3 = (un) substituted Ph or heterocyclyl; R4 = H or (un) substituted alkyl, (alkyl)cycloalkyl, alkenyl, alkynyl, Ph, alkylphenyl, naphthyl, biphenyl, heterocyclyl, cyclohexenyl, etc.; R5 and R6 = independently H or (un) substituted alkyl; or R4 and R5 may be joined together to form an (un) substituted C3-8 cycloalkyl ring; n = 1-3] were prepared as modulators of chemokine receptors, especially the chemokine receptors CCR-5 and/or CCR-3. For example, 2-(R)-((3-(R)-formyl)-4-(S)-3-fluorophenylpyrrolidinyl-1-yl)-3-cyclobutanepropionic acid benzyl ester (preparation given) was treated with Pd/C and dissolved in ClCH2CH2Cl. 4-[N-(pyrimid-2-yl)-N-(prop-1yl)amino]piperidine • HCl (4-step preparation given), NaBH (OAc)3, and TEA were added, followed by di-tert-butyldicarbonate, to give II. I showed binding activity to the CCR-5 or the CCR-3 receptor, generally with IC50 values of $< 1 \mu M$. The present invention is directed to compds. which inhibit the entry of human immunodeficiency virus (HIV) into target cells and are of value in the prevention and treatment of HIV infection and the resulting AIDS syndrome (no data). The invention is further directed to compds. which are useful in the prevention or treatment of certain inflammatory and immunoregulatory disorders, including asthma, allergic rhinitis, dermatitis, conjunctivitis, rheumatoid arthritis, and atherosclerosis (no data).

IT 301224-91-9P 301224-98-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine chemokine receptor modulators by reaction of 3-phenyl-4-formylpyrrolidines with heterocycles)

RN 301224-91-9 HCAPLUS

CN 1-Pyrrolidineacetic acid, α -(cyclopropylmethyl)-3-(3-fluorophenyl)-4-[[4-[[(4-fluorophenyl)sulfonyl]amino]methyl]-1-piperidinyl]methyl]-, $(\alpha R, 3S, 4S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 301224-98-6 HCAPLUS

CN 1-Pyrrolidineacetic acid, α-(cyclopropylmethyl)-3-(3-fluorophenyl)-4[[4-[[(pentafluorophenyl)sulfonyl]amino]methyl]-1-piperidinyl]methyl]-,
(αR,3S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine chemokine
receptor modulators by reaction of 3-phenyl-4-formylpyrrolidines with
heterocycles)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)

IT 301226-37-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine chemokine receptor modulators by reaction of 3-phenyl-4-formylpyrrolidines with

RN 301226-37-9 HCAPLUS

heterocycles)

CN 1-Piperidinecarboxylic acid, 4-[[[(4-fluorophenyl)sulfonyl]amino]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:291005 HCAPLUS

DOCUMENT NUMBER:

132:321867

TITLE:

Preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors
Black, Lawrence A.: Basha, Anwer: Kolasa, Teodozyi

INVENTOR(S):

Black, Lawrence A.; Basha, Anwer; Kolasa, Teodozyj; Kort, Michael E.; Liu, Huaqing; Mccarty, Catherine M.; Patel, Meena V.; Rohde, Jeffrey J.; Coghlan, Michael

J.; Stewart, Andrew O.

PATENT ASSIGNEE(S): SOURCE:

Abbott Laboratories, USA PCT Int. Appl., 477 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PA	PATENT NO.						KIND DATE			APPLICATION NO.							DATE			
	2000															9991	027	<		
	W:	ΑE,	AL,	AM,	ΑT,	ΑU	, AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,			
							, ES,													
	•						, KP,													
							, MX,													
							TT,													
							, TJ,		-	·	•	•	•	•	•	·	•			
	Æ₩:	GH,	GM,	KE,	LS,	MW	, SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,			
							, GR,													
		CG,	CI,	CM,	GA,	GN	, GW,	ML,	MR,	NE,	SN,	TD,	TG							
CA	2347	982			AA		2000	0504	4	CA 1	999-	2347	982		1	9991	027	<		
AU	9965	230			A1		2000	0515		AU 1	999-	6523	0		1	9991	027	<		
	7732																			
EP	1124																			
	R:	ΑT,	ΒE,	CH,	DE,	DK	, ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,			
		ΙE,	SI,	LT,	LV,	FI	, RO													
US	6307	047			В1		2001	1023										-		
BR	9914	858			Α		2002	0205]	BR 1	999-	1485	8		1	9991	027	<		
JP	9914 2003	5122	92		T2		2003									9991				
ZA	2001	0033	10		Α															
	2001				Α		2001									0010	426	<		
_	1055				Α		2001	1231								0010		<		
PRIORIT	Y APP	LN.	INFO	. :												9981				
													72			9990				
													90			9990				
																9991				
																9970				
																9980				
]	JS 1	998-	1374	57		B2 1	9980	820			
000000	a=	(0)			143.5		100	2026			999-1	US25:	234		W 1	9991	027			
OTHER S	JURCE	(5):			MAR.	PAT'	132:	3218(o /											

OTHER SOURCE(S):

MARPAT 132:321867

GI

$$R^3$$
 N
 R
 R^2
 X
 R^1
 I

The title compds. [I; X = O, S, NR4, etc.; R4 = alkyl, alkenyl, AB cycloalkyl, etc.; R = H, alkyl, alkenyl, etc.; at least one of R1-R3 = II-III (wherein X1 = SO2, SO(NR10), SO, etc.; R9 = alkyl, alkenyl, alkynyl, etc.; X2 = H, halo, alkyl, etc.; R10 = H, alkyl, cycloalkyl); the remaining two of the groups of R1-R3 = H, OH, hydroxyalkyl, etc.] which are cyclooxygenase (COX) inhibitors, and in particular, are selective inhibitors of cyclooxygenase-2 (COX-2), and therefore are useful in treating pain, fever, inflammation, rheumatoid arthritis, osteoarthritis, adhesions, and cancer, were prepared Thus, oxidation of 2-benzyl-4-(4fluorophenyl)-5-[4-(methylthio)phenyl]-3(2H)-pyridazinone (preparation given) with MeCO3H in CH2Cl2 afforded 86% I [X = O; R = PhCH2; R1 = 4-FC6H4; R2 = 4-(MeSO2)C6H4; R3 = H], which showed 0.014 μ M against COX-2. COX-2 is the inducible isoform associated with inflammation, as opposed to the constitutive isoform, cyclooxygenase-1 (COX-1) which is an important "housekeeping" enzyme in many tissues, including the gastrointestinal (GI) tract and the kidneys. The selectivity of the compds. I for COX-2 minimizes the unwanted GI and renal side-effects seen with currently marketed non-steroidal anti-inflammatory drugs (NSAIDs).

IT 563-47-3, 3-Chloro-2-methylpropene 701-34-8,

4-Aminosulfonyl-1-bromobenzene

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors)

RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

$$^{\rm CH_2}_{\parallel}$$
 $^{\rm H_3C-}$ $^{\rm C-}$ $^{\rm CH_2-}$ $^{\rm Cl}$

RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

3

ACCESSION NUMBER: 1999:795808 HCAPLUS

DOCUMENT NUMBER: 132:35714

TITLE: Preparation of heterocyclyl sulfonylbenzene compounds

as anti-inflammatory/analgesic agents.

INVENTOR(S):
Ando, Kazuo; Kato, Tomoki; Kawai, Akiyoshi; Nonomura,

Tomomi

PATENT ASSIGNEE(S): Pfizer Pharmaceuticals Inc., USA

SOURCE: PCT Int. Appl., 236 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

											APPLICATION NO.									
	9964															 9990	 531 <	; - -		
	W:	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,			
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IS,	JP,	ΚE,	KG,			
		ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,			
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,			
		UA,	UG,	UZ,	VN,	ΥU,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM				
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	ŪĠ,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,			
		ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,			
		CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG								
	9938				A 1		1999	1230	7	AU 1	999-	3841	4		1	9990	531 <	:		
EP	1086	097			A1		2001	0328]	EP 1	999-	9210	43		1	9990	531 <	:		
EP	1086	097			В1		2004	0519												
																	ΙE,			
JP	2002	5174	96		T2		2002	0618		JP 2	000-	5534	24		1	9990	531 <	:		
AT	2671	96			E		2004	0615 0831	i	AT 1	999-	9210	43		1	9990	531			
PT	1086				${f T}$		2004	0831	1	PT 1	999-	9210	43		1	9990	531			
ES	2220	060						1201									531			
	9903				Α			0104									610 <			
	6294				В1												215 <			
	2002		-							US 2	001-	8413	48		2	0010	424 <	:		
	6608				B2			0819												
	2003							1204		US 2	003-	4657	67		2	0030	618			
	6727				B2			0427												
	2004				A1		2004	0812					61							
PRIORIT	Y APP	LN.	INFO	.:									2							
													0							
													49			9991				
													48			0010				
									1	US 2	003-	4657	67		A3 2	0030	518			

OTHER SOURCE(S): MARPAT 132:35714

GI

$$\begin{array}{c|c}
0 & R^3 & R^4 \\
R^2 - S & A & R^5 \\
0 & R^6 & R^5 & R^7 & R^1
\end{array}$$

This invention provides a compound of formula (I) or its pharmaceutically AB acceptable salt thereof [wherein A is partially unsatd. or unsatd. five membered heterocyclic, or partially unsatd. or unsatd. five membered carbocyclic, wherein the 4-(sulfonyl)phenyl and the 4-substituted Ph in formula I are attached to ring atoms of Ring A, which are adjacent to each other; R1 is optionally substituted aryl or heteroaryl, with the proviso that when A is pyrazole, R1 is heteroaryl; R2 is C1-4 alkyl, halo-substituted C1-4 alkyl, C1-4 alkylamino, C1-4 dialkylamino or amino; R3, R4 and R5 are independently hydrogen, halo, C1-4 alkyl, halo-substituted C1-4 alkyl or the like; or two of R3, R4 and R5 are taken together with atoms to which they are attached and form a 4-7 membered ring; R6 and R7 are independently hydrogen, halo, C1-4 alkyl, halo-substituted C1-4 alkyl, C1-4 alkoxy, C1-4 alkylthio, C1-4 alkylamino or N,N-di C1-4 alkylamino; and m and n are independently 1, 2, 3 or 4]. This invention also provides a pharmaceutical composition useful for the treatment of a medical condition in which prostaglandins are implicated as pathogens. This invention relates to compound and pharmaceutical compns. for the treatment of cyclooxygenase mediated diseases. These compds. inhibit the biosynthesis of prostaglandins by intervention of the action of the enzyme cyclooxygenase on arachidonic acid, and are therefore useful in the treatment or alleviation of inflammation and other inflammation associated disorders, such as arthritis, in mammals (no data). Thus, To a stirred solution of 1-[4-(Methylsulfonyl)phenyl]-5-(4-bromophenyl)-3trifluoromethyl-1H-pyrazole (0.27 g) in DME (8 mL) was added 3-thiophenboronic acid (0.09 g), bis(triphenylphosphine)palladium(II)chlor ide (0.05 g) and saturated NaHCO3 solution (2 mL) at room temperature under nitrogen. The mixture was heated at reflux temperature for 16 h, and cooled down to room temperature to give, after purification by flash chromatog. eluting with Et acetate/hexane (1/1), 1-[4-(Methylsulfonyl)phenyl]-5-[4-(2-thienyl)phenyl]-

3-trifluoromethyl-1H-pyrazole (II) in 64 % yield.

IT 598-31-2, Bromoacetone

> RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of heterocyclyl sulfonylbenzene compds. as cyclooxygenase inhibitors, prostaglandin biosynthesis inhibitors, anti-inflammatory, and analgesic agents)

598-31-2 HCAPLUS RN

2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME) CN

$$\begin{matrix} \text{O} \\ \parallel \\ \text{H}_3\text{C--C-CH}_2\text{--Br} \end{matrix}$$

IT 108966-71-8P, 3,4-Difluorobenzenesulfonamide 146533-46-2P , 3-Chloro-4-fluorobenzenesulfonamide 252562-59-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocyclyl sulfonylbenzene compds. as cyclooxygenase inhibitors, prostaglandin biosynthesis inhibitors, anti-inflammatory, and analgesic agents)

108966-71-8 HCAPLUS RN

Benzenesulfonamide, 3,4-difluoro- (9CI) (CA INDEX NAME) CN

RN 146533-46-2 HCAPLUS

CN Benzenesulfonamide, 3-chloro-4-fluoro- (9CI) (CA INDEX NAME)

RN 252562-59-7 HCAPLUS

CN Benzenesulfonamide, 2-[3-(4-bromophenyl)-5-methyl-4-isoxazolyl]-4-fluoro-(9CI) (CA INDEX NAME)

REFERENCE COUNT:

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1999:753211 HCAPLUS

DOCUMENT NUMBER:

132:3319

TITLE:

Preparation of novel 4-phenylpiperidines for the

treatment of pruritic dermatoses

INVENTOR(S):

Armer, Richard Edward; Dutton, Christopher James; Gethin, David Morris; Gibson, Stephen Paul; Smith,

Julian Duncan; Tommasini, Ivan

PATENT ASSIGNEE(S):

Pfizer Inc., USA; Pfizer Limited

SOURCE:

PCT Int. Appl., 171 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

DOCUMENT TIPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	PATENT NO.						KIND DATE				ICAT	ION I		DATE				
WO	9959	971							1	WO 1	999-	IB88	6		1	9990	517	<
							BA,											
		DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IS,	JP,	ΚĒ,	
							LK,											
		MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	
							VN,											
		ТJ,																
	RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SL,	SΖ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,	
		ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	
		CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG						
CA	2332	538			AΑ		1999	1125		CA 1	999-	2332	538		1:	9990.	517	<
CA	2332			C		1999	1125											
AU	U 9935312																	
ZA	9903	364							ZA 1999-3364									
BR	9910	609			A 20010109				BR 1999-10609									
EP	1077	940			A1 20010228				EP 1999-917038						19990517 <			
EP	1077						2004											
	R:	ΑT,	ΒĒ,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	ΝL,	SE,	PT,	ΙE,	FI
JP	2002	5154	86		T2		2002				000-							<
AT	2710	38			E		2004											
	ES 2230846								ES 1999-917038									
US	US 2003078282						2003	0424	•	US 2	000-	6462	55		2	0000	511	
US	6610	711			B2		2003	0826										
RIORIT	Y APP	LN.	INFO	. :					1	GB 1	998-	1067	1		A 1	9980	518	
										WO 1	999-	IB88	6	1	W 1	9990	517	
THER SO	OURCE	(S):			MAR	PAT	132:	3319										

$$\begin{bmatrix} x \end{bmatrix}_{n} = \begin{bmatrix} y^2 \\ N - W - Y^1 \end{bmatrix}$$

$$R^1 R^2$$

$$R^3 = \begin{bmatrix} 0 \end{bmatrix}_{V} = \begin{bmatrix} 1 \\ 0 \end{bmatrix}_{V}$$

$$R =$$

The title compds. [I; R1, R2 = H, alkyl; R3 = alkyl, alkenyl, alkynyl; W = SO2, CO, P(Y1):O, P(Y1):S; X = H, halo, alkyl, etc.; Y1 = alkyl, NH2, aryl, etc.; Y2 = H, alkyl, alkenyl, etc.; n = 0-2; yr = 0-1] and their pharmaceutically and veterinarily acceptable salts, useful for having utility in the treatment of pruritic dermatoses including allergic dermatitis and atopy in animals and humans, were prepared and formulated. E.g., synthesis of trans-3,4-dimethylpiperidine II which was found to display anti-pruritic activity when tested for its ability to inhibit the hind leg scratching behavior induced in male Wistar rats by the administration of the known pruritogenic agent, was given.

II

IT 250730-87-1P

GI

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel 4-phenylpiperidines for the treatment of pruritic dermatoses)

RN 250730-87-1 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[3-[(3R,4R)-1-hexyl-3,4-dimethyl-4-piperidinyl]phenyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

$$\begin{array}{c} \text{Me} & \text{C1} \\ \text{Me} & \text{S} \\ \text{Me} & \text{N} \\ \text{S} & \text{S} \\ \text{Me} & \text{O} & \text{O} \\ \end{array}$$

IT 1458-98-6 172376-41-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of novel 4-phenylpiperidines for the treatment of pruritic dermatoses)

RN 1458-98-6 HCAPLUS

CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)

RN 172376-41-9 HCAPLUS

Absolute stereochemistry. Rotation (-).

IT 32376-91-3P 93719-30-3P 250732-61-7P

250732-63-9P 250732-66-2P 250732-67-3P

250732-69-5P 250732-71-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of novel 4-phenylpiperidines for the treatment of pruritic dermatoses)

RN 32376-91-3 HCAPLUS

RN 93719-30-3 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 3-cyclopentylpropyl ester (9CI) (CA INDEX NAME)

RN 250732-61-7 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4,4-dimethylcyclohexyl)ethyl ester (9CI) (CA INDEX NAME)

RN 250732-63-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(cyclohexyloxy)ethyl ester (9CI) (CA INDEX NAME)

RN 250732-66-2 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-[3-(trifluoromethyl)phenyl]ethyl ester (9CI) (CA INDEX NAME)

RN 250732-67-3 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(1-naphthalenyl)ethyl ester (9CI) (CA INDEX NAME)

RN 250732-69-5 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-tricyclo[3.3.1.13,7]dec-1-ylethyl ester (9CI) (CA INDEX NAME)

RN 250732-71-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 3-cyclohexyl-3-oxopropyl ester (9CI) (CA INDEX NAME)

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 4 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 11 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:244638 HCAPLUS

DOCUMENT NUMBER: 130:311813

Preparation of piperazinylisoquinolines and analogs as TITLE:

serotonin antagonists

Ueno, Kohshi; Sasaki, Atsushi; Kawano, Koki; Okabe, INVENTOR (S):

Tadashi; Kitazawa, Noritaka; Takahashi, Keiko;

Yamamoto, Noboru; Suzuki, Yuichi; Matsunaga, Manabu;

Kubota, Atsuhiko

Eisai Co., Ltd., Japan PATENT ASSIGNEE(S):

PCT Int. Appl., 740 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.							KIND DATE			APPLICATION NO.					DATE				
	WO	9918 W:	A1 19990415			WO 1998-JP4465						19981002 <-			<					
					CH,	CY,	DE	, DK,	ES,	FI, F	R, (GB, C	SR,	IE,	IT,	LU,	MC,	NL,		
	JР	2000	05364	47		A2		2000	0222	JP	19	98-28	3175	52		1	9981	002	<	
																19981002 <				
										GB, G										
			IE,	•	,	,		, ,	•	•	•	•	•	•	•	•	·	•		
	US	6340	•			В1		2002	0122	US	20	00-50	97	78		2	0000	331	<	
		2002						2002	0131	US	20	01-85	528	50		2	0010	511	<	
		6790				B2		2004												
		2004						2004		US	2.0	04-79	966	73		2	0040	310		
		6875				B2		2005			_ •			_						
PRIOR						22			0.00	qT,	19	97-28	3429	90		A 1	9971	002		
INION		, ALL		1111	• •							98-15					9980			
												98-JI					9981			
												00-50					0000			
												01-85					0010			

MARPAT 130:311813 OTHER SOURCE(S):

GΙ

$$R^{1}$$

$$R^{2}$$

$$R^{2}$$

$$R^{2}$$

$$R^{3}$$

$$R^{2}$$

$$R^{3}$$

$$R^{2}$$

$$R^{3}$$

$$R^{2}$$

$$R^{3}$$

AB The title compds. I [ring A = benzene, pyridine, thiophene or furan ring; B = (un)substituted aryl, etc.; R1 = H, halo, etc.; R2 = 4-morpholinyl, etc.; R3 = H, halo, etc.; n = 0, or 1 - 6] are prepared I are central muscle relaxing drugs for treating, ameliorating or preventing spastic paralysis or ameliorating myotonia. In an in vitro test for 5HT1 receptor antagonism, the title compound II showed the Ki value of 21.2 nM.

II

IT 598-31-2, 1-Bromo-2-propanone 701-34-8

223557-22-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of piperazinylisoquinolines and analogs as serotonin
 antagonists)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)

RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)

RN 223557-22-0 HCAPLUS

CN 2-Benzofurancarboxylic acid, 5-bromo-2,3-dihydro-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

IT 223555-45-1P 223555-46-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of piperazinylisoquinolines and analogs as serotonin

antagonists)

RN 223555-45-1 HCAPLUS

CN 2-Benzofurancarboxylic acid, 2,3-dihydro-2-methyl-5-(tributylstannyl)-,

ethyl ester (9CI) (CA INDEX NAME)

RN 223555-46-2 HCAPLUS

CN 2-Benzofurancarboxylic acid, 5-[7-(4-ethyl-1-piperazinyl)thieno[2,3-

c]pyridin-5-yl]-2,3-dihydro-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 12 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:166604 HCAPLUS

DOCUMENT NUMBER: 130:223284

TITLE: Preparation of arylpyridazinones as prostaglandin

endoperoxide H synthase biosynthesis inhibitors

INVENTOR(S): Black, Lawrence A.; Basha, Anwer; Kolasa, Teodozyj;

Kort, Michael E.; Liu, Huaqing; McCarty, Catherine M.;

Patel, Meena V.; Rohde, Jeffrey J.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: PCT Int. Appl., 307 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

3

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.								APPLICATION NO.						DATE			
	9910																	<
	W:	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	HR,	ΗŪ,	ID,	IL,	IS,	JP,	KE,	KG,	
							LR,									-		
		NO,	NZ,	PL,	PT,	RO	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR.	TT,	
		UA,	UG,	UZ,	VN,	YU,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM	·	
	RW:						SD,										ES,	
							IT,											
		CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			-	-	-	·	
CA	2299	300			AA		1999	0304		CA 1	998-	2299	300		1	9980	810	<
AU	9886	976			A1		1999	0316	1	AU 1	998-	8697	6		1	9980	810	<
AU	7413			B2		2001	1129											
EP	1007	515		•	A1		2000	0614]	EP 1	998-	9384	51		1	9980	810	<
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
					RO													
BR	9812	127			Α		2000	0718]	BR 1	998-	1212	7		1	9980	810	<
TR	2000	0047					2002	0422			000-							
	2003						2003	0520							. 1	9980	810	
	9807				Α		1999	0223			998-				-			
NO	2000	0008	63		Α		2000	0222	1	NO 2	000-	863			2	0000	222	<
NO	3154	23			B1		2003	0901										
MX	2000	0185	0		Α		2000	1030	1	MX 2	000-	1850			2	0000	222	<
BG	1042	41			Α		2000	1031			000-					0000		
PRIORITY	APP	LN.	INFO	. :					Ţ	JS 1	997-	9170	23		A 1	9970	822	
									Ţ	JS 1	998-	1295	70		A 1	9980	805	
									Ţ	WO 1	998-1	US16	479	1	W 1	9980	810	
A		(0)							~ 4									

OTHER SOURCE(S):

MARPAT 130:223284

GΙ

$$R^3$$
 N
 N
 R
 X^2
 X^2

AB The title compds. [I; X = O, S, NR4, etc.; R4 = alkyl, alkenyl, cycloalkyl, etc.; R = H, alkyl, alkenyl, etc.; at least one of R1-R3 = II-III (wherein X1 = SO2, SO(NR10), SO, etc.; R9 = alkyl, alkenyl, alkynyl, etc.; X2 = H, halo, alkyl, etc.; R10 = H, alkyl, cycloalkyl); the remaining two of the groups of R1-R3 = H, OH, hydroxyalkyl, etc.] which are cyclooxygenase (COX) inhibitors, and in particular, are selective inhibitors of cyclooxygenase-2 (COX-2), and therefore are useful in treating pain, fever, inflammation, rheumatoid arthritis, osteoarthritis, adhesions, and cancer, were prepared Thus, oxidation of 2-benzyl-4-(4fluorophenyl)-5-[4-(methylthio)phenyl]-3(2H)-pyridazinone (preparation given) with MeCO3H in CH2Cl2 afforded 86% I [X = O; R = PhCH2; R1 = 4-FC6H4; R2 = 4-(MeSO2)C6H4; R3 = H] which showed 0.014 μ M against COX-2. COX-2 is the inducible isoform associated with inflammation, as opposed to the constitutive isoform, cyclooxygenase-1 (COX-1) which is an important

"housekeeping" enzyme in many tissues, including the gastrointestinal (GI) tract and the kidneys. The selectivity of the compds. I for COX-2 minimizes the unwanted GI and renal side-effects seen with currently marketed non-steroidal anti-inflammatory drugs (NSAIDs).

IT 563-47-3, 3-Chloro-2-methylpropene 701-34-8,

4-Aminosulfonyl-1-bromobenzene

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of arylpyridazinones as prostaglandin endoperoxide H synthase biosynthesis inhibitors)

RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

$$^{\text{CH}_2}_{\parallel}$$

 $_{ ext{H}_3\text{C}}$ C C $_{ ext{CH}_2}$ C $_{ ext{C}}$

RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 13 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:686864 HCAPLUS

DOCUMENT NUMBER: 130:25035

TITLE: Fluorinated heterocycles: I. New 1,4-benzothiazines

and 1,2,4-benzothiadiazines

AUTHOR(S): Vysokov, V. I.; Charushin, V. N.; Chupakhin, O. N.;

Pashkevich, T. K.

CORPORATE SOURCE: Ural State Technical University, Yekaterinburg,

620002, Russia

SOURCE: Russian Journal of Organic Chemistry (Translation of

Zhurnal Organicheskoi Khimii) (1998), 34(3),

428-433

CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal LANGUAGE: English

AB Chlorosulfonation of 3,4-difluoroaniline gave 2-amino-4,5-difluorobenzenesulfonyl chloride which was converted into the corresponding sulfonamide and sulfinic acid. The latter were used to

synthesize various fluorine-containing 1,4-benzothiazine and 1,2,4-benzothiadiazine 1,1-dioxides.

IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of fluoro-substituted benzothiazine and benzothiadiazine dioxides)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)

IT 1993-10-8P 152821-61-9P 216252-48-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of fluoro-substituted benzothiazine and benzothiadiazine dioxides)

RN 1993-10-8 HCAPLUS

CN Benzenesulfonamide, 2-amino-4,5-difluoro- (7CI, 8CI, 9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \circ & \\ \parallel & \\ s-nH_2 \\ \parallel & \circ \\ nH_2 \end{array}$$

RN 152821-61-9 HCAPLUS

Na

RN 216252-48-1 HCAPLUS

CN Acetamide, N-[[2-(acetylamino)-4,5-difluorophenyl]sulfonyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 14 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:364966 HCAPLUS

DOCUMENT NUMBER: 129:27890

TITLE: Preparation of benzopyran derivatives and

pharmaceutical compositions containing them

INVENTOR(S): Muller, Timothee; Moulin, Claudie; Duflos, Muriel;

Robert-Piessard, Sylvie; Le Baut, Guillaume; Tonnerre, Alain; Caignard, Daniel-Henri; Manechez, Dominique;

Renard, Pierre

PATENT ASSIGNEE(S): Adir Et Compagnie, Fr. SOURCE: Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.			KIND	DATE	APPLICATION NO. DATE
	844245 844245			A1 B1		EP 1997-402821 19971124 <
EF	R: AT,			DE, D	K, ES, FR,	GB, GR, IT, LI, LU, NL, SE, MC, PT,
	•	•	•	-	I, RO	
	2756284			A1	19980529	
FR	2756284			B1	20000428	
AT	201020			E	20010515	AT 1997-402821 19971124 <
ES	2157539			Т3	20010816	ES 1997-402821 19971124 <
PT	844245			T	20010928	PT 1997-402821 19971124 <
CA	2222467			AA	19980526	CA 1997-2222467 19971125 <
CA	2222467			C	20020528	}
NO	9705402			Α	19980527	NO 1997-5402 19971125 <
CN	1183412			Α	19980603	CN 1997-122919 19971125 <
JP	10158260			A2	19980616	JP 1997-321858 19971125 <
US	5889045			Α	19990330	US 1997-977793 19971125 <
BR	9705064			Α	19990720	BR 1997-5064 19971125 <
	9745383			A1	19980528	B AU 1997-45383 19971126 <
	720479			B2	20000601	
	9710649			A	19980612	
	3036242			Т3	20011031	
	APPLN.	TNFO			20011031	FR 1996-14470 A 19961126
	OURCE(S):			млррд	T 129:2789	
GI GI	JUNCE (S):			I IFAICE F	11 127.2703	, v
GI						

$$R^{3}O$$

$$R^{4}$$

$$R^{5}$$

$$R^{2}$$

$$NYASO_{2}R^{6}$$

AB The title compds. I [R1 = alkyl, R2, R4, R5 = H, alkyl, R3 = H, alkyl, acyl, carboxyalkyl, alkoxycarbonyl, etc.; X = CO, CH2; Y = H, alkyl, aryl; A = bond, alkylphenyl; R6 = isocyanato, amino group, substituted urea,

Ι

etc.] were prepared and their pharmacol. activity determined (no data). E.g., reaction of 6-acetoxy-3,4-dihydro-2,5,7,8-tetramethyl-1(2H)-benzopyran-2-carboxylic acid with MeSO2NH2 gave N-(6-acetoxy-3,4-dihydro-2,5,7,8-tetramethyl-1(2H)-benzopyran-2-carbonyl)methanesulfonamide.

IT 208039-12-7P 208039-13-8P 208039-14-9P 208039-37-6P 208039-57-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation and pharmacol. activity of benzopyran derivs.)

RN 208039-12-7 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-(acetyloxy)-N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-13-8 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-(acetyloxy)-N-[(4-chlorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-14-9 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-(acetyloxy)-N-[(4-bromophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-37-6 HCAPLUS

CN Benzenesulfonamide, 4-bromo-N-[(3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & Me \\ Me & O \\ HO & Me \\ Me & O \\ \end{array}$$

RN 208039-57-0 HCAPLUS

CN Butanoic acid, 2-[[[(4-bromophenyl)sulfonyl]amino]carbonyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)

IT 208039-29-6P 208039-30-9P 208039-31-0P

208039-36-5P 208039-39-8P 208039-46-7P

208039-47-8P 208039-49-0P 208039-50-3P

208039-51-4P 208039-56-9P 208039-62-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and pharmacol. activity of benzopyran derivs.)

RN 208039-29-6 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-30-9 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-31-0 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-bromophenyl)sulfonyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-36-5 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[(3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \text{Me} & \text{O} & \text{Cl} \\ \text{Me} & \text{O} & \text{CH}_2 - \text{NH} - \text{S} & \text{O} \\ \text{HO} & \text{Me} & \text{O} & \text{O} \\ \end{array}$$

RN 208039-39-8 HCAPLUS

CN Benzenesulfonamide, N-[[6-(acetyloxy)-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl]methyl]-4-bromo- (9CI) (CA INDEX NAME)

RN 208039-46-7 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl-6-(2-quinolinylmethoxy)- (9CI) (CA INDEX NAME)

RN 208039-47-8 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl-6-(2-quinolinylmethoxy)- (9CI) (CA INDEX NAME)

RN 208039-49-0 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, 6-[(7-chloro-2-quinolinyl)methoxy]-N-[(4-fluorophenyl)sulfonyl]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-50-3 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-chlorophenyl)sulfonyl]-6-[(7-chloro-2-quinolinyl)methoxy]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-51-4 HCAPLUS

CN 2H-1-Benzopyran-2-carboxamide, N-[(4-bromophenyl)sulfonyl]-3,4-dihydro-6-

methoxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-56-9 HCAPLUS

CN Propanoic acid, 2-methyl-, 2-[[[(4-bromophenyl)sulfonyl]amino]carbonyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)

RN 208039-62-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[[[(4-bromophenyl)sulfonyl]amino]carbonyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)

IT 98-64-6, 4-Chlorobenzenesulfonamide 402-46-0,

4-Fluorobenzenesulfonamide 701-34-8, 4-Bromobenzenesulfonamide

106461-96-5 122005-20-3 208039-84-3

208039-86-5 208039-88-7 208039-90-1

208039-92-3 208039-94-5 208039-96-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and pharmacol. activity of benzopyran derivs.)

RN 98-64-6 HCAPLUS

CN Benzenesulfonamide, 4-chloro- (9CI) (CA INDEX NAME)

RN 402-46-0 HCAPLUS

CN Benzenesulfonamide, 4-fluoro- (9CI) (CA INDEX NAME)

RN 701-34-8 HCAPLUS

CN Benzenesulfonamide, 4-bromo- (9CI) (CA INDEX NAME)

RN 106461-96-5 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-6-methoxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 122005-20-3 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 6-(acetyloxy)-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-84-3 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(2-quinolinylmethoxy)- (9CI) (CA INDEX NAME)

$$HO_2C$$
 Me
 Me
 Me
 Me
 Me

RN 208039-86-5 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 6-[(7-chloro-2-quinolinyl)methoxy]-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-88-7 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 6-(acetyloxy)-7-(1,1-dimethylethyl)-3,4-dihydro-2-methyl- (9CI) (CA INDEX NAME)

RN 208039-90-1 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(2-methyl-1-oxopropoxy)- (9CI) (CA INDEX NAME)

RN 208039-92-3 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(1-oxobutoxy)- (9CI) (CA INDEX NAME)

RN 208039-94-5 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 6-(2,2-dimethyl-1-oxopropoxy)-3,4-dihydro-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

RN 208039-96-7 HCAPLUS

CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-6-(1-oxopropoxy)- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 15 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:784425 HCAPLUS

DOCUMENT NUMBER: 127:345953

TITLE: Deprotection of Allyl Groups with Sulfinic Acids and

Palladium Catalyst

AUTHOR(S): Honda, Masanori; Morita, Hiromasa; Nagakura, Isao

CORPORATE SOURCE: Chemical Process Development Laboratory Drug Substance

Manufacturing Plant, Pfizer Pharmaceuticals Inc.,

Taketoyo, 470-23, Japan

SOURCE: Journal of Organic Chemistry (1997), 62(25),

8932-8936

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:345953

AB Sulfinic acids and their salts (e.g., PhSO2H, 4-MeC6H4SO2Na), together with a Pd catalyst [e.g., Pd(PPh3)4], were used to remove allylic groups from allylic esters, ethers, and amines. Excellent yields of the deprotected carboxylic acids, alcs., and amines were obtained.

IT 1458-98-6, 3-Bromo-2-methylpropene 80917-26-6, Benzenesulfinic acid, 4-chloro-3-nitro-, sodium salt

RL: RCT (Reactant); RACT (Reactant or reagent)

(deprotection of allylic compds. with sulfinic acids and palladium

catalyst)

RN 1458-98-6 HCAPLUS

CN 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME)

RN 80917-26-6 HCAPLUS

CN Benzenesulfinic acid, 4-chloro-3-nitro-, sodium salt (9CI) (CA INDEX NAME)

Na

REFERENCE COUNT: 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 16 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:123849 HCAPLUS

DOCUMENT NUMBER: 118:123849

TITLE: Nucleophilic substitution reactions of methallyl

arenesulphonates with anilines and

N, N-dimethylanilines

AUTHOR(S): Oh, Hyuck Keun; Shin, Chul Ho

CORPORATE SOURCE: Dep. Chem., Chonbuk Natl. Univ., Chonju, 560-756, S.

Korea

SOURCE: Journal of Physical Organic Chemistry (1992)

), 5(11), 731-5

CODEN: JPOCEE; ISSN: 0894-3230

DOCUMENT TYPE: Journal LANGUAGE: English

Kinetic studies of the reactions of CH2:CMeCH2OSO2C6H4Z-p (I; AΒ Z=Me,H,Cl,NO2) with anilines and N,N-dimethylanilines in acetonitrile at 45.0° are reported. The sign and magnitude of the cross-interaction consts. ρxz (and βxz) between substituents in the nucleophile (X) and leaving group (Z) suggest that the transition state (TS) is slightly tighter than that for the corresponding reactions of allyl arenesulfonates(II) . This is also supported by the observation that the magnitudes of ρx and ρz for I are uniformly greater than those for the reactions of II. These results are in line with the simple MO theory that the 2-position of the allyl system is inactive electronically. The steric effect of the 2-Me group in II causes a rate retardation and a shift of the TS toward a later position along the reaction coordinate with a slight increase in the overall tightness of the TS structure. The large |pxz| value obtained eliminates the possibility of an SN2' mechanism.

IT 20443-62-3 20443-63-4 20443-64-5

77618-50-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(nucleophilic substitution reaction of, with anilines and
dimethylanilines, kinetics and mechanism of)

RN 20443-62-3 HCAPLUS

CN 2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{CH}_2 & \text{O} \\ \parallel & \parallel \\ \text{Me-C-CH}_2\text{-O-S} \\ \parallel & \text{O} \end{array}$$

RN 20443-63-4 HCAPLUS

CN 2-Propen-1-ol, 2-methyl-, benzenesulfonate (7CI, 8CI, 9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{CH}_2 & \text{O} \\ || & || \\ \text{Me-} & \text{C--} & \text{CH}_2 - \text{O--} & \text{S--} & \text{Ph} \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || &| &| \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || & || & || \\ || &$$

RN 20443-64-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-methyl-2-propenyl ester (9CI) (CF INDEX NAME)

$$\begin{array}{c|c} O & CH_2 \\ \parallel & \parallel \\ S-O-CH_2-C-Me \\ \parallel & O \end{array}$$

77618-50-9 HCAPLUS RN

Benzenesulfonic acid, 4-nitro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX CNNAME)

$$\begin{array}{c|c} & \circ & \operatorname{CH}_2 \\ \parallel & \parallel & \parallel \\ \operatorname{S-O-CH}_2-\operatorname{C-Me} \\ 0 & \circ & \\ \end{array}$$

L47 ANSWER 17 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1990:118372 HCAPLUS

DOCUMENT NUMBER:

112:118372

TITLE:

Hydration of 1- and 3-(arylsulfonyl)-1-propynes and

(arylsulfonyl)allenes

AUTHOR (S):

Mikhailova, V. N.; Bulat, A. D.; Yurevich, V. P.;

Ezhova, L. A.

CORPORATE SOURCE:

SOURCE:

Leningr. Inst. Sov. Torgovly, Leningrad, USSR Zhurnal Organicheskoi Khimii (1988), 24(9),

1948-52

CODEN: ZORKAE; ISSN: 0514-7492

DOCUMENT TYPE:

LANGUAGE:

Journal Russian

OTHER SOURCE(S):

CASREACT 112:118372

Reaction of isomeric RSO2CH2C.tplbond.CH (R = Ph, substituted Ph),

RSO2CH:C:CH2 (R = Ph, 4-FC6H4, 4-MeC6H4, 4-O2NC6H4), and RSO2C:CMe (R = Ph, 4-FC6H4) with R1NH2 (R1 = 3-MeC6H4, 4-MeOC6H4) in an aqueous-organic

solvent gives RSO2CH2COMe via the unstable enamine intermediates RSO2CH:CMeNHR1.

IT 369-51-7P 1195-33-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN369-51-7 HCAPLUS

Benzenesulfinic acid, 4-fluoro- (9CI) (CA INDEX NAME) CN

RN 1195-33-1 HCAPLUS CN Benzenesulfinic acid, 4-bromo- (9CI) (CA INDEX NAME)

IT 34176-08-4

RL: RCT (Reactant); RACT (Reactant or reagent) (substitution reaction of, with bromoacetone)

RN 34176-08-4 HCAPLUS

CN Benzenesulfinic acid, 4-bromo-, sodium salt (9CI) (CA INDEX NAME)

Na

IT 598-31-2, Bromoacetone

RL: RCT (Reactant); RACT (Reactant or reagent) (substitution reaction of, with sodium arylsulfinates)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)

L47 ANSWER 18 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:45212 HCAPLUS

DOCUMENT NUMBER: 102:45212

TITLE: Stereochemistry of allyl sulfones. On the structure

of metalated allyl sulfones and their stereochemistry

of alkylation

AUTHOR(S): Trost, Barry M.; Schmuff, Norman R.

CORPORATE SOURCE: McElvain Lab. Org. Chem., Univ. Wisconsin, Madison,

WI, 53706, USA

SOURCE: Journal of the American Chemical Society (1985

), 107(2), 396-405

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 102:45212

Stereochem. studies involving alkylation of metalated allyl sulfones are AB probed to address the question of the structure of these important synthetic intermediates. In contrast to recent conclusions, both exptl. and theor., declaring sulfone-stabilized carbanions planar, the diastereoselectivity of these alkylations questions such conclusions even though the addnl. allylic conjugation would have been anticipated to provide a further driving force for planarity. A model to rationalize the seemingly contrasteric highly diastereoselective alkylations in which the sulfone-stabilized allylic carbanion exists as a somewhat pyramidalized organometallic emerges. The preferred conformations of the cyclohexenyl allylic sulfones place the sulfone moiety in an axial orientation and, in at least one acyclic case, the C-S bond parallel to the p-orbitals. An electronic stabilization is proposed to account for this conformation. In addition, the stereochem. of the palladium-catalyzed allylic alkylation with arylsulfinate places this nucleophile into the class of heteroatom nucleophiles that proceed with predominant net retention of configuration. IT 5015-75-8

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with carvyl acetate, catalyst for)

RN 5015-75-8 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, sodium salt (9CI) (CA INDEX NAME)

Na

IT 563-47-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with sodium benzenesulfinate)

RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

L47 ANSWER 19 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1985:5305 HCAPLUS

DOCUMENT NUMBER:

102:5305

TITLE:

Substituent effect on the acetolysis of neophyl

p-bromobenzenesulfonates

AUTHOR (S):

Fujio, Mizue; Funatsu, Kimito; Shibata, Koji;

Yoshinaga, Hironori; Maeda, Yasuyuki; Goto, Mutsuo;

Mishima, Masaaki; Tsuno, Yuho

CORPORATE SOURCE:

Fac. Sci., Kyushu Univ., Fukuoka, 812, Japan

SOURCE:

Memoirs of the Faculty of Science, Kyushu University,

Series C: Chemistry (1984), 14(2), 319-32

CODEN: MFKCAL; ISSN: 0085-2635

DOCUMENT TYPE:

Journal

English LANGUAGE:

Substituent effects on acetolysis kinetics of several RC6H4CMe2CH2OBs (Bs = brosylate; R = p-MeO, p-MeS, m-Me, etc.), as well as of some analogous disubstituted derivs., were determined An r value (a measure of resonance demand) of 0.56 in the LArSR equation indicated that the mechanism involves a rate-determining aryl-assisted transition state, which cascades down to the tertiary carbonium ion without staying as a bridged intermediate. Thus, the substituent effect maybe viewed as the effect on the aryl-assisted ionization step. The application of the Brown $\rho\sigma$ + equation is criticized.

18755-55-0P 18755-58-3P 24517-38-2P IT28204-21-9P 83324-07-6P 83324-08-7P 83324-09-8P 83324-10-1P 83324-11-2P 83324-12-3P 83324-13-4P 83324-14-5P 83324-15-6P 83324-16-7P 83324-17-8P 83324-18-9P 83324-19-0P 83324-20-3P 93748-33-5P 93748-34-6P 93748-35-7P 93748-36-8P 93748-37-9P 93748-38-0P 93748-39-1P 93748-40-4P 93748-41-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and acetolysis of, kinetics of)

18755-55-0 HCAPLUS RN

Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(4-nitrophenyl)propyl ester CN(CA INDEX NAME) (9CI)

18755-58-3 HCAPLUS RN

Benzenesulfonic acid, 4-bromo-, 2-(4-cyanophenyl)-2-methylpropyl ester CN (CA INDEX NAME) (9CI)

$$\begin{array}{c|c} \text{Me} & \text{O} \\ \\ \text{C} & \text{CH}_2 - \text{O} - \text{S} \\ \\ \text{NC} & \text{Me} & \text{O} \\ \end{array}$$

24517-38-2 HCAPLUS RN

Benzenesulfonic acid, 4-bromo-, 2-methyl-2-phenylpropyl ester (9CI) CNINDEX NAME)

RN 28204-21-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4-methoxyphenyl)-2-methylpropyl ester
(9CI) (CA INDEX NAME)

RN 83324-07-6 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(2,3-dihydro-5-benzofuranyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-08-7 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4-methoxy-3-methylphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-09-8 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3,4-dimethylphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \text{O} \\ \text{Me} & \text{C-CH}_2\text{-O-S} \\ \text{Me} & \text{O} \\ \end{array}$$

RN 83324-10-1 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(4-phenoxyphenyl)propyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \text{O} \\ \hline \\ \text{C-} \text{CH}_2 - \text{O-} \\ \\ \text{Me} & \text{O} \\ \end{array}$$

RN 83324-11-2 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-[4-(methylthio)phenyl]propyl ester (9CI) (CA INDEX NAME)

RN 83324-12-3 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(4-methylphenyl)propyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \text{O} \\ | \\ \text{C-CH}_2\text{-O-S} \\ | \\ \text{Me} \end{array}$$

RN 83324-13-4 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-14-5 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-chloro-4-methoxyphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-15-6 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-[1,1'-biphenyl]-4-yl-2-methylpropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & O \\ \hline \\ C-CH_2-O-S \\ \hline \\ Me & O \end{array}$$

RN 83324-16-7 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3,4-dichlorophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-17-8 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-[3-chloro-4-(methylthio)phenyl]-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-18-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4-fluorophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-19-0 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4-chlorophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 83324-20-3 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-chlorophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 93748-33-5 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3,5-dimethylphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & O \\ \hline Me & O \\ \hline C-CH_2-O-S \\ \hline Me & O \\ \end{array}$$

RN 93748-34-6 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-(3-methylphenyl)propyl ester (9CI) (CA INDEX NAME)

RN 93748-35-7 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-cyano-4-methoxyphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 93748-36-8 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-methoxyphenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} & \text{O} \\ & \text{C} \\ \text{CH}_2 - \text{O} - \text{S} \\ & \text{Me} \\ & \text{O} \\ \end{array}$$

RN 93748-37-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(4-bromophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} & \text{O} \\ & \text{C} & \text{CH}_2 - \text{O} - \text{S} \\ & \text{Me} & \text{O} \end{array}$$

RN 93748-38-0 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-[3-cyano-4-(methylthio)phenyl]-2-methylpropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \text{O} \\ \hline \\ \text{NC} & \text{C-CH}_2\text{-O-S} \\ \hline \\ \text{Me} & \text{O} \\ \end{array}$$

RN 93748-39-1 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-fluorophenyl)-2-methylpropyl ester
(9CI) (CA INDEX NAME)

RN 93748-40-4 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-(3-bromophenyl)-2-methylpropyl ester (9CI) (CA INDEX NAME)

RN 93748-41-5 HCAPLUS

CN Benzoic acid, 4-[2-[[(4-bromophenyl)sulfonyl]oxy]-1,1-dimethylethyl]-, methyl ester (9CI) (CA INDEX NAME)

IT 563-47-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with chloroanisole in presence of carbon disulfide)

RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

L47 ANSWER 20 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:582465 HCAPLUS

DOCUMENT NUMBER: 97:182465

TITLE: Benzothiadiazines having diuretic activity

INVENTOR(S): Haugwitz, Rudiger D.

PATENT ASSIGNEE(S): ? E. R. Squibb and Sons, Inc., USA

Sackey 10 682530

SOURCE:

U.S., 3 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ----------------US 4338435 А 19820706 US 1981-268944 19810601 <--US 1981-268944 19810601

PRIORITY APPLN. INFO.:

CASREACT 97:182465

OTHER SOURCE(S): GI

AB [(Acylthio)alkyl]benzo]thiadiazine dioxides I (R = H, alkyl, PhCH2; R1 = H, alkyl, Ph; R2, R3, R4, R5, R6, R7, R8, R9, R10, R11 = H, halo, alkyl, Ph; R12 = alkyl, Ph, PhCH2; R13, R14 = H, halo, CF3, SO2NH2, NO2, alkyl, alkoxy; n, m, p, r, s = 0, 1; R1R12 = CH2, CH2CH2) were prepared and are useful as diuretics (no data). Thus, refluxing 5,2,4-Cl(H2NSO2)2C6H2NH2 with AcSCH2CH2CHO in MeCN gave I (n = m = 1, p = r = s = 0, R12 = Me, R13 = 6-C1, R14 = 7-SO2NH2, R-R5 = H).

IT121-30-2

RL: RCT (Reactant); RACT (Reactant or reagent) (cyclocondensation of, with β -(acetylthio)propionaldehyde)

RN121-30-2 HCAPLUS

1,3-Benzenedisulfonamide, 4-amino-6-chloro- (9CI) (CA INDEX NAME) CN

IT 78-95-5

> RL: RCT (Reactant); RACT (Reactant or reagent) (esterification by, of thioacetic acid)

RN 78-95-5 HCAPLUS

2-Propanone, 1-chloro- (8CI, 9CI) (CA INDEX NAME) CN

L47 ANSWER 21 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:180349 HCAPLUS

DOCUMENT NUMBER: 96:180349

Alkyl and alkenyl esters of sulfonic acids. XXI. TITLE:

Kinetic isotope effects of alkyl and alkenyl esters of

sulfonic acid

Sendega, R.; Gorbatenko, N.; Vizgert, R. AUTHOR(S): CORPORATE SOURCE: Odessa Polytech. Inst., Odessa, USSR

Organic Reactivity (Tartu) (1980), 17(3), SOURCE:

247-66

CODEN: ORREDZ; ISSN: 0131-8314

DOCUMENT TYPE: Journal LANGUAGE: English

The hydrolysis kinetics of p-MeC6H4SO3Cr2CH:CH2, labeled with 14C or AB α -deuterated, and of different alkyl and alkenyl sulfonates in H2O or D2O are compared with those of alkenyl chlorides and show that the differences in transition states are related to the differences in the degree of covalency of the breaking substrate bond. The transition state structure also depends on the sp. solvation power of the solvent. The occurrence of ion pairing and ion separation in the hydrolyses is discussed.

6165-74-8 20443-62-3 33420-10-9 IT

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrolysis of, solvent isotope effect in relation to kinetics and

mechanism of)

6165-74-8 HCAPLUS RN

Benzenesulfonic acid, 4-chloro-, 2-propenyl ester (9CI) (CA INDEX NAME) CN

20443-62-3 HCAPLUS RN

2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME) CN

$$\begin{array}{c} \text{CH}_2 & \text{O} \\ \parallel & \parallel \\ \text{Me-} & \text{C-} & \text{CH}_2 - \text{O-} \\ \text{S} & \parallel \\ \text{O} & \parallel \end{array}$$

RN 33420-10-9 HCAPLUS

Benzenesulfonic acid, 4-bromo-, 2-propenyl ester (9CI) (CA INDEX NAME) CN

L47 ANSWER 22 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:142585 HCAPLUS

DOCUMENT NUMBER: 96:142585

TITLE: Synthesis and reactions of substituted

1-(arenesulfonyl)aziridines and azetidines

AUTHOR(S): Markov, V. I.; Danileiko, D. A.; Doroshenko, V. A.;

Gella, I. M.; Polyakov, A. E.

CORPORATE SOURCE: Dnepropetr. Khim.-Tekhnol. Inst., Dnepropetrovsk, USSR

SOURCE: Org. Soedin. Sery (1980), Volume 2, 176-84.

Editor(s): Gal'pern, G. D. Zinatne: Riga, USSR.

CODEN: 38CKA3

DOCUMENT TYPE: Conference

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 96:142585

GI

AB Addition reaction of 4-ClC6H4SO2NCl2 and CH2:CMeCH2Cl gave 4-ClC6H4SO2NClCH2CMeClCH2Cl, which was N-dichlorinated with Na2SO3, then cyclized to I with aqueous NaOH. I with H2SO4 in MeOH gave 4-ClC6H4SO2NHCH2C(OMe)MeCH2Cl, which with NaOEt gave 14.5% II. Also prepared were several other aziridines, III, and its 9,10-anthracene analog. IT 563-47-3

IT 563-47-3
RL: RCT (Reactant); RACT (Reactant or reagent)

(addition reaction of, with trichlorobenzenesulfonamide)

RN 563-47-3 HCAPLUS

CN 1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

IT 834-70-8P 17260-63-8P 38388-71-5P 38388-76-0P 38388-82-8P 78050-50-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and alkaline cyclization of)

RN 834-70-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloropropyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & \text{C1} \\ \parallel & & \parallel \\ \text{S-NH-CH}_2\text{-CH-CH}_2\text{C1} \\ \parallel & & \\ \text{O} \end{array}$$

RN 17260-63-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2-chloro-2-cyanoethyl)- (9CI) (CA INDEX NAME)

RN 38388-71-5 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloro-2-methylpropyl)- (9CI) (CA INDEX NAME)

RN 38388-76-0 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[1-(chloromethyl)-2-(phenylthio)ethyl]-(9CI) (CA INDEX NAME)

RN 38388-82-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(3-chloro-2-methoxy-2-methylpropyl)- (9CI) (CA INDEX NAME)

RN 78050-50-7 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2-chloro-1,2-dihydro-1-acenaphthylenyl)-(9CI) (CA INDEX NAME)

L47 ANSWER 23 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1982:51998 HCAPLUS

DOCUMENT NUMBER:

96:51998

TITLE:

Sulfonic esters of keto alcohols and medicine

containing these substances

INVENTOR(S):

Fujii, Setsuro; Hamakawa, Toshihiro; Ogawa, Kazuo;

Muranaka, Yoshiyuki; Hashimoto, Sadao

PATENT ASSIGNEE(S):

Taiho Yakuhin Kogyo K. K., Japan

SOURCE:

Fr. Demande, 64 pp. CODEN: FRXXBL

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2475041	A1	19810807	FR 1981-1712	19810129 <
FR 2475041	B1	19841228		
JP 56108758	A2	19810828	JP 1980-11214	19800131 <

Sackey 10 682530

JP 60	059904	B4	19851227					
JP 57	021321	A2	19820204	JP	1980-95299		19800711	<
JP 61	.030645	B4	19860715					
JP 57	059854	A2	19820410	JP	1980-137026		19800930	<
JP 62	053511	B4	19871110					
JP 57	102858	A2	19820626	JP	1980-180852		19801219	<
JP 63	018940	B4	19880420					
US 44	11911	Α	19831025	US	1981-225979		19810119	<
GB 20	68371	Α	19810812	GB	1981-1888		19810122	<
AU 81	.66677	A1	19810806	ΑU	1981-66677		19810128	<
AU 52	7933	B2	19830331					
CA 11	.67046	A1	19840508	CA	1981-369549		19810128	<
CH 65	5098	Α	19860327	CH	1981-599		19810129	<
DE 31	.03144	A1	19811126	DE	1981-3103144		19810130	<
DE 31	.03144	C2	19921112					
ES 49	9527	A1	19820201	ES	1981-499527		19810130	<
NL 81	.00494	A	19810901	NL	1981-494		19810202	<
NL 18	5343	В	19891016					
NL 18	5343	C	19900316					
US 44	89091	Α	19841218	US	1983-492873		19830509	<
PRIORITY A	APPLN. INFO.:			JΡ	1980-11214	Α	19800131	
				JР	1980-95299	Α	19800711	
					1980-137026	Α	19800930	
					1980-180852	Α	19801219	
				US	1981-225979	Α3	19810119	
ARTICE CATE	OT (0)	3 A CID D A C	TO 06. E1000					

OTHER SOURCE(S): CASREACT 96:51998

AB Sulfonic acids were treated with diazomethyl ketones, and sulfonic acid Ag salts with halomethyl ketones, to yield RSO3CH2CO(CH2)nR1 [R = alkyl, alkoxyalkyl, aralkyl, cycloalkyl, aryl; n = 0-6; R1 = alkyl, alkenyl, halo, OH, alkoxy, carbalkoxy, (alkoxycarbonyl)amino, NHCO2CH2Ph, cycloalkyl, oxacycloalkyl, oxaaryl, aryl], which exhibited anticholesteremic activity. Thus, PhSO3H reacted with PrCOCHN2 in ether to give PhSO3CH2COPr.

IT 3019-04-3

RL: RCT (Reactant); RACT (Reactant or reagent) (esterification of silver benzenesulfonate derivative by)

RN 3019-04-3 HCAPLUS

CN 2-Propanone, 1-iodo- (8CI, 9CI) (CA INDEX NAME)

IT 6378-25-2 80524-88-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification of, by diazomethyl ketone derivative)

RN 6378-25-2 HCAPLUS

CN Benzenesulfonic acid, 2,4,5-trichloro- (6CI, 7CI, 9CI) (CA INDEX NAME)

RN 80524-88-5 HCAPLUS

Benzenesulfonic acid, 4-chloro-2-hydroxy- (9CI) (CA INDEX NAME) CN

98-66-8 IT

> RL: RCT (Reactant); RACT (Reactant or reagent) (esterification of, by diazomethyl ketones)

98-66-8 HCAPLUS RN

Benzenesulfonic acid, 4-chloro- (9CI) (CA INDEX NAME) CN

IT

80506-30-5P 80506-31-6P 80506-32-7P

80506-33-8P 80519-87-5P 80520-45-2P

80520-46-3P 80520-47-4P 80520-74-7P

80524-35-2P 80524-39-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and anticholesteremic activity of)

RN80506-30-5 HCAPLUS

CNBenzenesulfonic acid, 4-chloro-, 2-oxooctyl ester (9CI) (CA INDEX NAME)

80506-31-6 HCAPLUS RN

Benzenesulfonic acid, 4-chloro-, 2-oxododecyl ester (9CI) (CA INDEX NAME) CN

RN80506-32-7 HCAPLUS

Sackey 10_682530

CN Benzenesulfonic acid, 4-chloro-, 5-methyl-2-oxohexyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & & \\ & & & & \\ & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

RN 80506-33-8 HCAPLUS

CN Benzenesulfonic acid, 2,4,6-trimethyl-, 2-oxopropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & O & O \\ \parallel & S-O-CH_2-C-Me \\ \parallel & O \\ Me & Me \end{array}$$

RN 80519-87-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxoundecyl ester (9CI) (CA INDEX NAME)

RN 80520-45-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxopentyl ester (9CI) (CA INDEX NAME)

RN 80520-46-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxohexyl ester (9CI) (CA INDEX NAME)

RN 80520-47-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxoheptyl ester (9CI) (CA INDEX NAME)

RN 80520-74-7 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-4-phenylbutyl ester (9CI) (CA INDEX NAME)

RN 80524-35-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-2-hydroxy-, 2-oxopentyl ester (9CI) (CA INDEX NAME)

RN 80524-39-6 HCAPLUS

CN Benzenesulfonic acid, 2,4,5-trichloro-, 2-oxopentyl ester (9CI) (CA INDEX NAME)

IT 80521-02-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 80521-02-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-cyclohexyl-2-oxoethyl ester (9CI) (CA INDEX NAME)

L47 ANSWER 24 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:442784 HCAPLUS

DOCUMENT NUMBER: 95:42784

TITLE: Synthesis and reactions of saturated

1-(arenesulfonyl)aziridines and azetidines

AUTHOR(S): Markov, V. I.; Danileiko, D. A.; Doroshenko, V. A.;

Gella, I. M.; Polyakov, A. E.

CORPORATE SOURCE: USSR

SOURCE: Organ. Soedin. Sery, Riga (1980), (2),

176-84

From: Ref. Zh., Khim. 1981, Abstr. No. 3Zh149

DOCUMENT TYPE: Journal LANGUAGE: Russian

AB Title only translated.

IT 834-70-8P 17260-63-8P 38388-71-5P

38388-82-8P 78050-50-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 834-70-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloropropyl)- (9CI) (CA INDEX NAME)

Sackey 10_682530

RN 17260-63-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2-chloro-2-cyanoethyl)- (9CI) (CA INDEX NAME)

RN 38388-71-5 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2,3-dichloro-2-methylpropyl)- (9CI) (CA INDEX NAME)

RN 38388-82-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(3-chloro-2-methoxy-2-methylpropyl)- (9CI) (CA INDEX NAME)

RN 78050-50-7 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2-chloro-1,2-dihydro-1-acenaphthylenyl)-(9CI) (CA INDEX NAME)

IT 563-47-3

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with dichlorobenzenesulfonamides)

RN563-47-3 HCAPLUS

1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME) CN

H3C-C-CH2-C1

L47 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1980:514368 HCAPLUS

DOCUMENT NUMBER:

93:114368

TITLE:

Chemistry of sulfonyl isocyanates and sulfonyl isothiocyanates. IX. Routes to substituted oxazolidin-2-ones and oxazolidine-2-thiones

AUTHOR (S):

SOURCE:

McFarland, J. W.; Hayes, C. E.; Blair, E. B.;

Stuhlmacher, K. R.

CORPORATE SOURCE:

Dep. Chem., DePauw Univ., Greencastle, IN, 46135, USA

Journal of Heterocyclic Chemistry (1980),

17(2), 271-2

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 93:114368

GT

$$C1 \longrightarrow SO_2N \longrightarrow O$$
 $R = II$

p-ClC6H4SO2NCO reacted with 2-chloroethanol and 1-chloro-2-propanol to AΒ give p-ClC6H4SO2NHCO2CHRCH2Cl (I; R = H, Me). I cyclized under the influence of pyridine to give the oxazolidinones II. II were stable toward HCl but hydrolyzed in 2 M NaOH solution to p-ClC6H4SO2NHCH2CHROH; p-MeC6H4SO2NCO reacted with 2-chloroethanol to give p-MeC4H4SO2NHC(S)OCH2CH2Cl, which was converted by pyridine to 3-(4-toluenesulfonyl)oxazolidine-2-thione.

63924-75-4P 74668-36-3P IT

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

63924-75-4 HCAPLUS RN

Carbamic acid, [(4-chlorophenyl)sulfonyl]-, 2-chloroethyl ester (9CI) (CA CN INDEX NAME)

RN 74668-36-3 HCAPLUS

CN Carbamic acid, [(4-chlorophenyl)sulfonyl]-, 2-chloro-1-methylethyl ester (9CI) (CA INDEX NAME)

IT 6419-69-8P 74668-38-5P

RN 6419-69-8 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2-hydroxyethyl) - (9CI) (CA INDEX NAME)

RN 74668-38-5 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(2-hydroxypropyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
O & OH \\
\parallel & & \parallel \\
S-NH-CH_2-CH-CH_3\\
\hline
O & & \\
\end{array}$$

IT 78-95-5

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with chlorobenzenesulfonyl isocyanate)

RN 78-95-5 HCAPLUS

CN 2-Propanone, 1-chloro- (8CI, 9CI) (CA INDEX NAME)

L47 ANSWER 26 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:6745 HCAPLUS

DOCUMENT NUMBER: 92:6745

TITLE: Experiments directed toward the total synthesis of

terpenes. 24. On the π route to aphidicolin:

synthesis of 18,19-bisnoraphidicolan-3-one

AUTHOR(S): Ireland, Robert E.; Aristoff, Paul A.

CORPORATE SOURCE: Chem. Lab., California Inst. Technol., Pasadena, CA,

91125, USA

SOURCE: Journal of Organic Chemistry (1979), 44(24),

4323-31

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

GI

AB Aphidicolane-type diterpenes, e.g., I, were prepared by construction of the bicyclo[3.2.1] ring from the tricyclic olefin II. The latter system required the development of spiroketone synthesis which gave III, whose 7-membered ring was contracted via photolysis of a diazoketone.

IT 71749-48-9P 71773-11-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclodehydration of)

III

RN 71749-48-9 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, (3',4',4'a,7',8',8'a-hexahydro-4,8'a-dimethyldispiro[3-cyclohexene-1,1'(2'H)-naphthalene-6'(5'H),2''-[1,3]dioxolan]-2'-yl)methyl ester, (1'α,2'β,4'aα,8'a.alph a.)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\$$

RN 71773-11-0 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, $(3',4',4'a,7',8',8'a-hexahydro-4,8'a-dimethyldispiro[3-cyclohexene-1,1'(2'H)-naphthalene-6'(5'H),2''-[1,3]dioxolan]-2'-yl)methyl ester, <math>(1'\alpha,2'\alpha,4'a\beta,8'a.beta.)$ - (9CI) (CA INDEX NAME)

 $(3'\alpha, 6'a\beta, 10'a\alpha) - (9CI)$ (CA INDEX NAME)

Relative stereochemistry.

RN 61616-09-9 HCAPLUS

CN Spiro[1,3-dioxolane-2,8'(6'H)-[1H]naphtho[2,1-b]pyran]-3'-carboxylic acid,

Sackey 10 682530

2',3',5',6'a,7',9',10',10'a-octahydro-3',10'a-dimethyl-, methyl ester, $(3'\alpha,6'a\alpha,10'a\beta)$ - (9CI) (CA INDEX NAME)

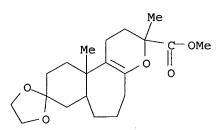
Relative stereochemistry.

RN 71749-30-9 HCAPLUS

CN Spiro[benzo[3,4]cyclohepta[1,2-b]pyran-9(1H),2'-[1,3]dioxolane]-3-carboxylic acid, 2,3,5,6,7,7a,8,10,11,11a-decahydro-3,11a-dimethyl-, methyl ester, $(3\alpha,7a\alpha,11a\alpha)$ - (9CI) (CA INDEX NAME)

RN 71773-04-1 HCAPLUS

CN Spiro[benzo[3,4]cyclohepta[1,2-b]pyran-9(1H),2'-[1,3]dioxolane]-3-carboxylic acid, 2,3,5,6,7,7a,8,10,11,11a-decahydro-3,11a-dimethyl-, methyl ester, $(3\alpha,7a\beta,11a\beta)$ - (9CI) (CA INDEX NAME)



L47 ANSWER 27 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1975:410102 HCAPLUS

DOCUMENT NUMBER: 83:10102

TITLE: Bicyclic lactam compounds

INVENTOR(S): Lattrell, Rudolf; Lohaus, Gerhard

PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G. SOURCE: Ger. Offen., 52 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

Sackey 10 682530

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

DE 2325770 A1 19741219 DE 1973-2325770 19730521 <-PRIORITY APPLN. INFO.: DE 1973-2325770 A 19730521

GI For diagram(s), see printed CA Issue.

German

AB Isomeric cephem derivs: I, II, and III (R = Me, Ph, AcoCH2, EtSCH2CH2, CH2:CH, PhCH2; R1 = Me, Ph; R2 = phthalimido, 4-ClC6H4SO2O, N3, PhCH2CONH) were prepared by cyclodehydration of azetidinones IV with Al or Ti tert-butylate in Me3COH or xylene. (Me3CO)3TiCl, Bu3SnNEt2, TiCl4, MeCaI, AlCl3, and BEt3-diethylboryl pivalate in PhMe and THF were also used. The ratio I-II formed depends on the catalyst and the solvent. II isomerizes to III readily in polar aprotic solvents, whereas this is prevented by the use of tert-alcoholates of Al or Ti. Cis isomers of I show antibacterial activity and the trans isomers are intermediates for pharmaceuticals.

IT 51523-91-2

RL: RCT (Reactant); RACT (Reactant or reagent) (cyclization with propenyl thioformimidate derivative)

RN 51523-91-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-chloro-2-oxoethyl ester (9CI) (CA INDEX NAME)

IT 37485-77-1

RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclodehydration of)

RN 37485-77-1 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-1-(2-oxopropyl)-4-[(2-oxopropyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 54150-88-8P

Sackey 10_682530

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and ketalization and azide exchange)

RN 54150-88-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-1-(2-oxo-2-phenylethyl)-4-[(2-oxopropyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 37485-40-8P 54150-17-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and oxidation with ozone)

RN 37485-40-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2-methyl-2-propenyl)-2-[(2-methyl-2-propenyl)thio]-4-oxo-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 54150-17-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2-methyl-2-propenyl)-2-oxo-4-[(2-phenyl-2-propenyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 55435-84-2P 55435-85-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 55435-84-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-acetyl-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 55435-85-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 4-acetyl-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl ester, (6α , 7β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 54150-87-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation, ketalization, and azido exchange)

RN 54150-87-7 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-4-[(2-oxo-2-phenylethyl)thio]-1-(2-oxopropyl)-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 598-31-2

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with diazathiabicycloheptene)

RN 598-31-2 HCAPLUS

CN 2-Propanone, 1-bromo- (8CI, 9CI) (CA INDEX NAME)

L47 ANSWER 28 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1975:4070 HCAPLUS

DOCUMENT NUMBER: 82:4070

TITLE: 4-Mercapto-2-azetidinones. II. Synthesis and

reactions of 4-mercapto-2-azetidinones

AUTHOR(S): Lattrell, Rudolf

CORPORATE SOURCE: Hoechst A.-G., Frankfurt/Main, Fed. Rep. Ger.

SOURCE: Justus Liebigs Annalen der Chemie (1974),

(9), 1361-90

CODEN: JLACBF; ISSN: 0075-4617

DOCUMENT TYPE: Journal LANGUAGE: German

GI For diagram(s), see printed CA Issue.

Reaction of the azetidines I [X = S; R = CPh3; R1 = e.g. CH2COMe, CH2CMe(OMe)2, CH2CO2Me, C(:CMe2)CO2Me, or CH:CPh2; R2 = N3, OAc, phthalimido, NHCOCH2Ph, O3SC6H4Cl-4, or O3SC6H4Me-4] with AgNO3, AcOHgCO2Me, and (AcO)2Hg gave I [X = S, R = Ag] (II), I [X = S, R = HgCO2Me] (III) and the Hg derivs. IV, resp. Treatment of II, III, and IV with H2S gave I (X = S, R = H) (V) as cis and trans isomers. Alkylation of V gave I (X = S; R = CH2COMe, CH2CO2Me, CH2COCH2Ph, CH2COCH2OAc, CH2COCH:CH2, CH2C(:CH2)CO2CMe3, CH2CMe:CH2, or CH2COCH2SEt) which were also prepared by direct alkylation of II, III, or IV. The reaction of V with ClCH2COCH:CH2 and with 2,3-dihydropyran gave no alkylation products but the addition products I (X = S, R = CH2CH2COCH2Cl or 2-tetrahydropyranyl, resp.). The solvolysis of III and IV with excess (AcO)2Hg in MeOH and HOAc, resp., gave I (X = O, R = Me or Ac, resp.). V [R1 = C(:CMe2)CO2Me were investigated regarding their possible occurrence in penicillin chemical

TT 51523-93-4P 51523-95-6P 51524-07-3P 51585-55-8P 54487-28-4P 54487-34-2P

54487-35-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and reaction with hydrogen sulfide)

RN 51523-93-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-4-oxo-1-(2-propenyl)-3-azetidinyl ester, mercury(2+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

●1/2 Hq(II)

RN 51523-95-6 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-1-(2-methyl-2-propenyl)-4-oxo-3-azetidinyl ester, mercury(2+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

●1/2 Hg(II)

RN 51524-07-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2,2-diphenylethenyl)-2-mercapto-4-oxo-3-azetidinyl ester, mercury(2+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

●1/2 Hg(II)

RN 51585-55-8 HCAPLUS

CN 1-Azetidinepropanoic acid, 3-[[(4-chlorophenyl)sulfonyl]oxy]-2-mercapto- α -methylene-4-oxo-, 1,1-dimethylethyl ester, mercury(2+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

●1/2 Hg(II)

RN 54487-28-4 HCAPLUS

CN 1-Azetidineacetic acid, 3-[[(4-chlorophenyl)sulfonyl]oxy]-2-mercapto- α -[1-methyl-1-(methylthio)ethyl]-4-oxo-, methyl ester, mercury(2+) salt (2:1) (9CI) (CA INDEX NAME)

●1/2 Hg(II)

RN 54487-34-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-1-(2-methyl-2-propenyl)-4-oxo-3-azetidinyl ester, silver(1+) salt, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● Ag(I)

RN 54487-35-3 HCAPLUS

CN 1-Azetidineacetic acid, 4-[[(4-chlorophenyl)sulfonyl]oxy]-2-mercapto- α -[1-methyl-1-(methylthio)ethyl]-4-oxo-, methyl ester, silver(1+) salt (9CI) (CA INDEX NAME)

■ Ag(I)

IT 51523-94-5P 51524-08-4P 51750-42-6P

51887-15-1P 54487-31-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 51523-94-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-mercapto-4-oxo-1-(2-propenyl)-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 51524-08-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2,2-diphenylethenyl)-2-mercapto-4-oxo-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 51750-42-6 HCAPLUS

CN 1-Azetidinepropanoic acid, 3-[[(4-chlorophenyl)sulfonyl]oxy]-2-mercapto- α -methylene-4-oxo-, 1,1-dimethylethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN51887-15-1 HCAPLUS

Benzenesulfonic acid, 4-chloro-, 2-mercapto-1-(2-methyl-2-propenyl)-4-oxo-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME) CN

Relative stereochemistry.

RN 54487-31-9 HCAPLUS

1-Azetidineacetic acid, 3-[[(4-chlorophenyl)sulfonyl]oxy]-2-mercapto-CN α -[1-methyl-1-(methylthio)ethyl]-4-oxo-, methyl ester (9CI) (CA INDEX NAME)

IT 1458-98-6

> RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with mercaptoazetidinone)

RN

1458-98-6 HCAPLUS 1-Propene, 3-bromo-2-methyl- (9CI) (CA INDEX NAME) CN

$$^{\text{CH}_2}_{\parallel}$$
 $_{\text{H}_3\text{C}^-\text{C}^-\text{CH}_2^-\text{Br}}$

Sackey 10_682530

Relative stereochemistry.

RN 51523-92-3 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxo-1-(2-propenyl)-4[(triphenylmethyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 51523-99-0 HCAPLUS

CN 1-Azetidinepropanoic acid, 3-[[(4-chlorophenyl)sulfonyl]oxy]-αmethylene-2-oxo-4-[(triphenylmethyl)thio]-, 1,1-dimethylethyl ester,
trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 51524-02-8 HCAPLUS

CN 1-Azetidineacetic acid, 3-[[(4-chlorophenyl)sulfonyl]oxy]- α -[1-methyl-1-(methylthio)ethyl]-2-oxo-4-[(triphenylmethyl)thio]-, methyl ester, trans- (9CI) (CA INDEX NAME)

RN 51524-06-2 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 1-(2,2-diphenylethenyl)-2-oxo-4-[(triphenylmethyl)thio]-3-azetidinyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L47 ANSWER 29 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1974:451140 HCAPLUS

DOCUMENT NUMBER: 81:51140

TITLE: Sulfonium salts as dye intermediates

INVENTOR(S): Rempfler, Hermann; Bosshard, Hans; Weber, Kurt

PATENT ASSIGNEE(S): Ciba-Geigy A.-G. SOURCE: Ger. Offen., 39 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
DE 2332709	A1	19740110	DE 1973-2332709	19730627 <		
PRIORITY APPLN. INFO.:			CH 1972-9851	A 19720630		
AB Sulfonium salts,	used as	intermediate	s for water-insol. sal	ts of anionic		
dyes, were prepared by reaction of organic halides, alcs., or esters with						
sulfides. Thus, reaction of (4-ClCH2C6H4)2 with tetrahydrothiophene in						
37% aqueous HCl 4 hr at 65.deg. gave 1,1'-(4,4'-biphenylylenedimethylene)bis(t						
etrahydrothiophen	ium) dic	hloride (I)	[51382-87-7]. Similar	ly prepared were		
33 other sulfoniu	m salts.	I was added	d to II in H2O to give	dye (III) {		

Sackey 10 682530

51382-86-6], uniform yellow on polyamide 66 fibers.

IT 51382-86-6P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)

RN 51382-86-6 HCAPLUS

CM 1 ·

CRN 51382-85-5 CMF C22 H17 Cl N5 O6 S2

CM 2

CRN 51382-84-4 CMF C22 H28 S2

$$CH_2$$
 CH_2 CH_2

IT 52761-33-8

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with (biphenylylenedimethylene)bis(tetrahydrothiophenium) dichloride)

RN 52761-33-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-3-[4,5-dihydro-5-imino-3-methyl-4-[[3-(phenoxysulfonyl)phenyl]azo]-1H-pyrazol-1-yl]-, monosodium salt (9CI) (CAINDEX NAME)

🕨 Na

IT563-47-3

> RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with tetrahydrothiophene)

RN563-47-3 HCAPLUS

1-Propene, 3-chloro-2-methyl- (9CI) (CA INDEX NAME) CN

L47 ANSWER 30 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1973:57942 HCAPLUS

DOCUMENT NUMBER:

78:57942

TITLE:

Reaction of acetol esters of arenesulfonic acids with

substituted phenols

AUTHOR (S):

Prib, O. A.; Yasinskii, I. M.

CORPORATE SOURCE: SOURCE:

Karagand. Med. Inst., Karaganda, USSR Zhurnal Organicheskoi Khimii (1971), 7(2),

348-50

CODEN: ZORKAE; ISSN: 0514-7492

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

4-XC6H4SO3CH2COMe (X = H, Cl, Me) (prepared in 65-79% yield by hydrating 4-XC6H4SO3CH2C.tplbond.CH in aqueous MeOH containing H2SO4-HgSO4) reacted with

ROH

(R = 2- and 4-BrC6H4, 2- and 4-O2NC6H4) in Me2CO containing K2CO3 at room temperature to give 82.1-92.3% ROCH2COMe. 2,6-Br2C6H3OH and 2,4-Cl2C6H3OH gave the resp. acetol ethers in 53.6 and 58.0% yield, and [5,2-Cl(HO)C6H3]2CH2 afforded the mono- and diethers in 90.1 and 91.2% yield, resp. All of the above products except the dibromophenyl and dichlorophenyl ethers formed semicarbazones in 62-92.0% yield.

IT 6165-77-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydration of)

RN 6165-77-1 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-propynyl ester (9CI) (CA INDEX NAME)

IT 1666-18-8 1666-19-9 1666-20-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction with phenols)

RN 1666-18-8 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-oxopropyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & & \\ & & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

RN 1666-19-9 HCAPLUS

CN 2-Propanone, 1-[[(4-methylphenyl)sulfonyl]oxy]- (9CI) (CA INDEX NAME)

RN 1666-20-2 HCAPLUS

CN 2-Propanone, 1-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \mathsf{O} & \mathsf{O} \\ || & || \\ \mathsf{Me-C-CH}_2-\mathsf{O-S-Ph} \\ || & \mathsf{O} \end{array}$$

L47 ANSWER 31 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1971:124637 HCAPLUS

DOCUMENT NUMBER: 74:124637

TITLE: Reactions of unsaturated esters of aromatic sulfonic

acids. XV. Solvolysis of 2-methylallyl and

Sackey 10 682530

2-methylpropyl esters of substituted benzenesulfonic.

acid in pure alcohols

AUTHOR(S):

CORPORATE SOURCE:

Sendega, R. V.; Mikhalevich, M. K.; Vizgert, R. V.

Dep. Gen. Inorg. Chem., Lvov. Polytech. Inst., Lvov,

USSR

SOURCE:

Reaktsionnaya Sposobnost Organicheskikh Soedinenii (

1970), 7(3), 636-57

CODEN: RSOTAY; ISSN: 0375-9520

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

The kinetics of the solvolysis of 2-methylallyl and 2-methylpropyl esters of substituted benzenesulfonic acid in alcs. ROH (R = Me, Et, n-Pr, n-Bu, iso-Pr, and tert-Bu) was studied at 50, 60, and 70° , and the corresponding activation parameters were calculated. Introduction of a Me group into the β -position of a propyl group decreased the solvolysis rate. The magnitude of the substituent effect depended on the magnitude of the pos. charge on the C atom at the reaction center; the less charge the greater the substituent effect. Linear relations of the rate consts. with inductive and steric consts. of the R substituents in the alcs. was observed; the steric effects of R were slight.

20443-63-4P 32317-63-8P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

20443-63-4 HCAPLUS RN

2-Propen-1-ol, 2-methyl-, benzenesulfonate (7CI, 8CI, 9CI) (CA INDEX CN

$$\begin{array}{c|c} \text{CH}_2 & \text{O} \\ || & || \\ \text{Me-} & \text{C-} & \text{CH}_2 \text{--} & \text{O-} & \text{S-} & \text{Ph} \\ || & & || \\ \text{O} \end{array}$$

32317-63-8 HCAPLUS RN

Benzenesulfonic acid, 4-chloro-, 2-methylpropyl ester (9CI) (CA INDEX CN

20443-62-3 20443-64-5 20443-65-6 IT

32317-56-9 32317-58-1 32317-59-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(solvolysis of, in alcs.)

RN20443-62-3 HCAPLUS

2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME) CN

$$\begin{array}{c|c} CH_2 & O \\ \parallel & \parallel \\ Me^- C^- CH_2^- O^- S \\ \parallel & 0 \end{array}$$

RN 20443-64-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

RN 20443-65-6 HCAPLUS

CN Benzenesulfonic acid, 3-nitro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

RN 32317-56-9 HCAPLUS

CN Benzenesulfonic acid, 4-methoxy-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{S-O-CH}_2 - \text{C-Me} \\ \parallel & \text{O} \end{array}$$

RN 32317-58-1 HCAPLUS

CN Benzenesulfonic acid, 3-chloro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

RN 32317-59-2 HCAPLUS

CN Benzenesulfonic acid, 4-bromo-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

L47 ANSWER 32 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:476101 HCAPLUS

DOCUMENT NUMBER: 69:76101

TITLE: Kinetics of the uncatalyzed and alkaline hydrolysis of

unsaturated esters of aromatic sulfonic acids

AUTHOR(S): Vizgert, R. V.; Sendega, R. V.

CORPORATE SOURCE: L'vov. Politekh. Inst., Lvov, USSR

SOURCE: Reaktsionnaya Sposobnost Organicheskikh Soedinenii (

1968), 5(1), 111-26

CODEN: RSOTAY; ISSN: 0375-9520

DOCUMENT TYPE: Journal LANGUAGE: Russian

Various XC6H4SO3R (I) were prepared by standard methods, the rate consts. of AB their uncatalyzed hydrolyses in 70% dioxane-water mixts. (k1 in sec.-1) and those of the alkali hydroxide-catalyzed reactions (k2 in 1. mole-1 sec.-1) determined, and the energies of activation (E in cal. mole-1), the resp. pre-exponential terms (A), and the entropies of activation [$\Delta S.++$. in cal.($\circ K.$)-1 mole-1] calculated The prepared I were characterized as tabulated. [TABLE OMITTED] The rate consts. were determined spectrophotometrically, conductometrically, and titrimetrically (the spectrophotometric method was the most appropriate). The results are as follows (I, k1 + 105 at 30, 40, and 50°, E, log A, and $-\Delta S.++$. values for the uncatalyzed reaction, $k^2 + 103$ at 30, 40, and 50°, and E, log A, and $-\Delta S.++$. values for the alkaline hydrolysis given): II, 0.0245, 0.0858, 0.278, 23.6, 10.20, 13.36, 0.362,0.991, 2.54, 18.0, 9.54, 15.88; III, 0.0501, 0.142, 0.458, 21.5, 9.21, 18.65, 0.673, 1.99, 3.98, 17.3, 9.31, 17.96; IV, 0.106, 0.355, 1.10,22.7, 10.4, 13.85, 1.595, 3.98, 10.00, 17.8, 10.84, 15.99; V, 0.653,1.735, 4.33, 18.4, 8.09, 23.53, 7.216, 15.85, 41.69, 17.1, 10.20, 13.91; VI, 1.123, 3.37, 9.40, 20.7, 10.07, 15.68, 1.13, 2.72, 6.55, 17.6, 9.76, 16.05; VII, 2.250, 6.47, 17.17, 19.8, 9.63, 17.55, 1.76, 4.34,11.06, 17.1, 10.01, 14.74; VIII, 5.62, 15.43, 42.42, 19.6, 10.00,15.30, 4.60, 10.73, 24.60, 16.9, 9.85, 15.49; IX, 27.23, 67.17, 163.0,17.0, 8.70, 20.75, 18.94, 44.80, 98.90, 16.0, 9.80, 15.73; X, 1.45,4.05, 10.60, 19.3, 9.08, 13.82, 1.4730, 4.01, 10.27, 18.9, 10.80, 11.13;XI, 2.49, 7.28, 19.58, 20.1, 9.89, 10.70, 2.369, 5.99, 14.33,

Sackey 10_682530

17.5,10.00, 14.80; XII, 7.82, 20.17, 45.62, 18.0, 8.81, 20.26, 6.317,15.00, 35.79, 16.3, 9.57, 17.74; XIII, 39.32, 86.67, 182.2, 14.9,7.34, 26.95, 27.79, 62.80, 134.8, 15.4, 9.54, 16.90; XIV, 13.22(at 0°), 143.5 (at 20°), -, 18.9, 9.76, 15.91, high, high, high, -, -, -; XV, 28.83 (at 0°), 240 (at 20°), -, 16.8,8.59, 23.38, high, high, high, -, -, -; XVI, 8.63, 23.12,46.2, 16.3, 7.70, 20.76, high, high, high, -, -, -; XVII, low, low, low, -, -, -, 2.800, 5.105, 8.09, 10.31, 4.89,38.24; XVIII, -, -, -, -, -, 1.815 (at70°), -, 0.291, 20.0, 10.10, 14.93; XIX, -, -, -, -, -, 3.210 (at 70°), -, 0.588, 19.1, 9.65, 14.38; XX, -, -, -, -, -, 0.210, -, 1.445, 18.8, 9.88, 15.46; and XXI, -, -, -, -, -, 0.833, -, 3.450, 18.3, 10.10, 15.28. The $\sigma 0$ correlation terms for the I reaction series at 30° were evaluated with the following results (R, -log k0, and $\rho0$ for the uncatalyzed hydrolyses, and -log k0 and $\rho0$ for the catalyzed reactions given): CH2C.tplbond.CH, 6.30, 1.69, 3.18, 1.53; CH2CH:CH2, 4.65, 1.68, 2.74, 1.46; and CH2CMe:CH2, 4.62, 1.62, 2.60, 1.49. The uncatalyzed hydrolyses are discussed in terms of a 2-step mechanism (the slow 1st step involves the formation of a carbonium ion by splitting the C-O bond.

$$\begin{array}{c} \mathsf{O} & \mathsf{O} \\ \parallel & \mathsf{II} \\ \mathsf{Me} - \mathsf{C} - \mathsf{CH}_2 - \mathsf{O} - \mathsf{S} \\ \parallel & \mathsf{O} \end{array}$$

RN 6165-74-8 HCAPLUS CN Benzenesulfonic acid, 4-chloro-, 2-propenyl ester (9CI) (CA INDEX NAME)

RN 6165-77-1 HCAPLUS CN Benzenesulfonic acid, 4-chloro-, 2-propynyl ester (9CI) (CA INDEX NAME)

RN 20443-62-3 HCAPLUS

CN 2-Propen-1-ol, 2-methyl-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} CH_2 & O \\ \parallel & \parallel \\ Me-C-CH_2-O-S \\ \parallel & O \end{array}$$

RN 20443-63-4 HCAPLUS

CN 2-Propen-1-ol, 2-methyl-, benzenesulfonate (7CI, 8CI, 9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{CH}_2 & \text{O} \\ || & || \\ \text{Me-C-CH}_2 - \text{O-S-Ph} \\ || & || \\ \text{O} \end{array}$$

RN 20443-64-5 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

RN 20443-65-6 HCAPLUS

CN Benzenesulfonic acid, 3-nitro-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

20443-71-4 HCAPLUS RN

Benzenesulfonic acid, 4-chloro-, ethyl ester (9CI) (CA INDEX NAME) CN